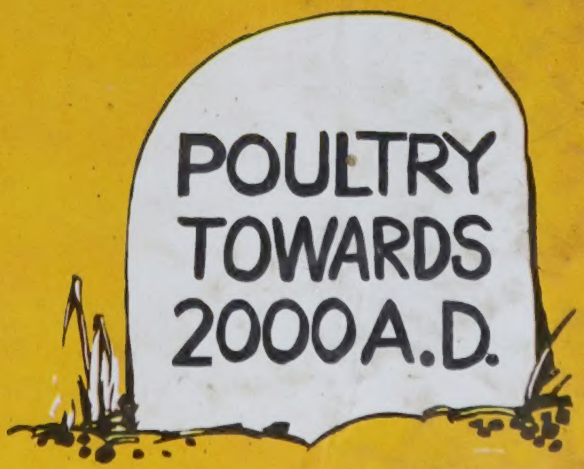
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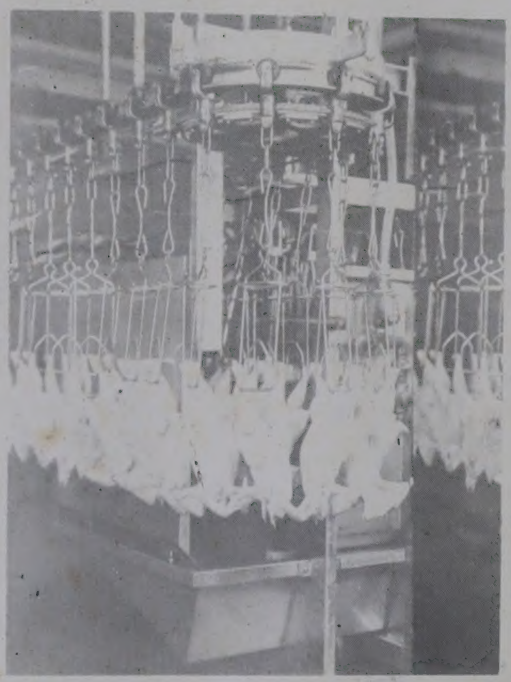
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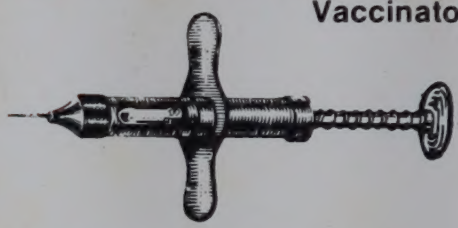
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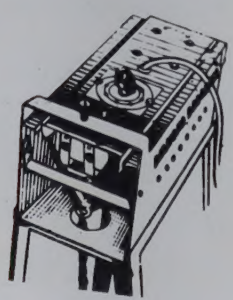
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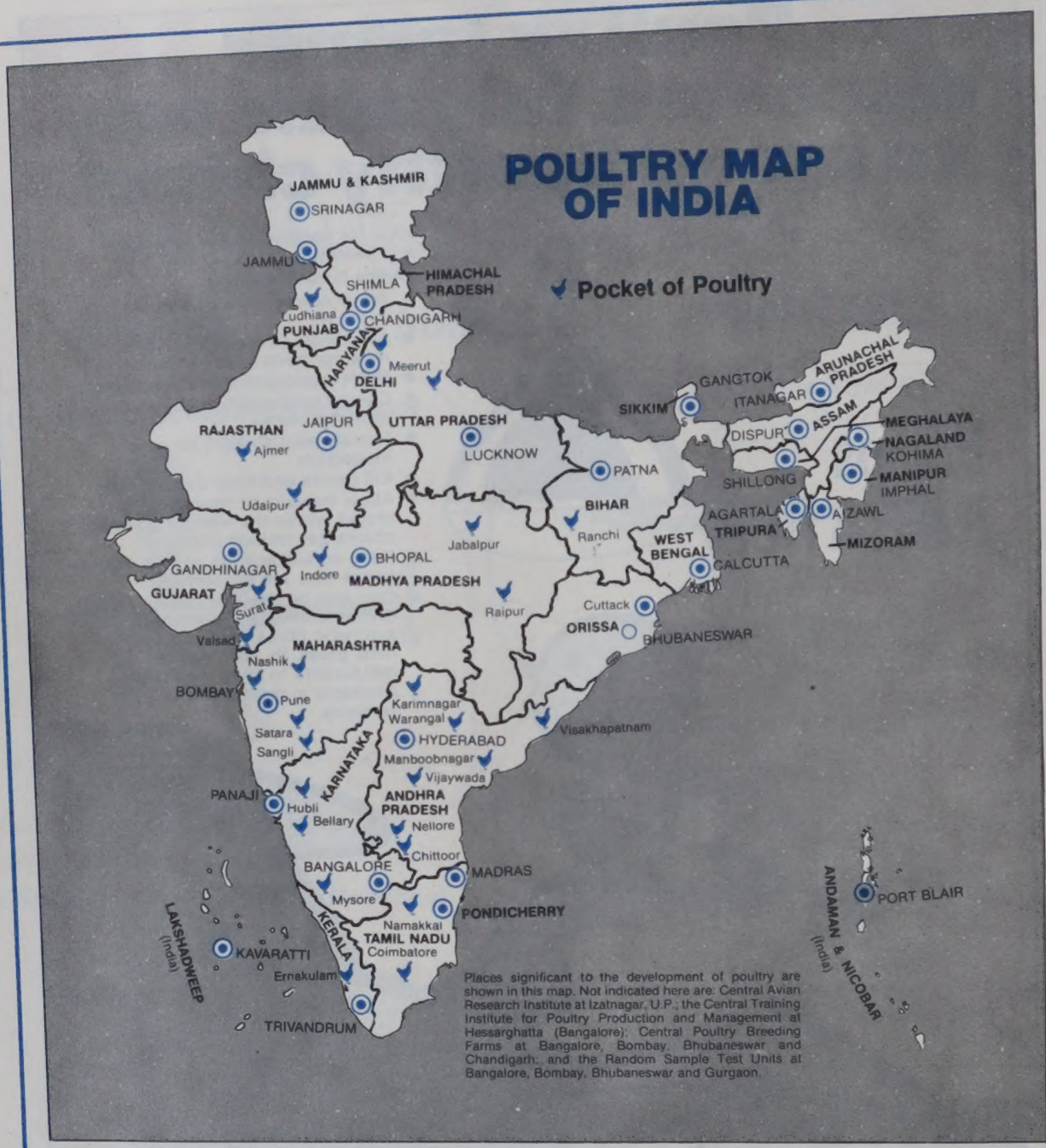


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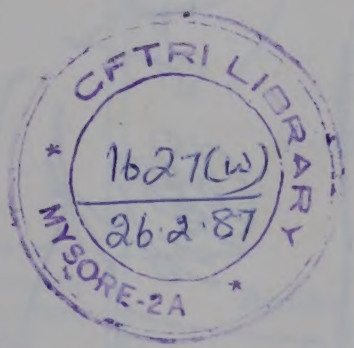
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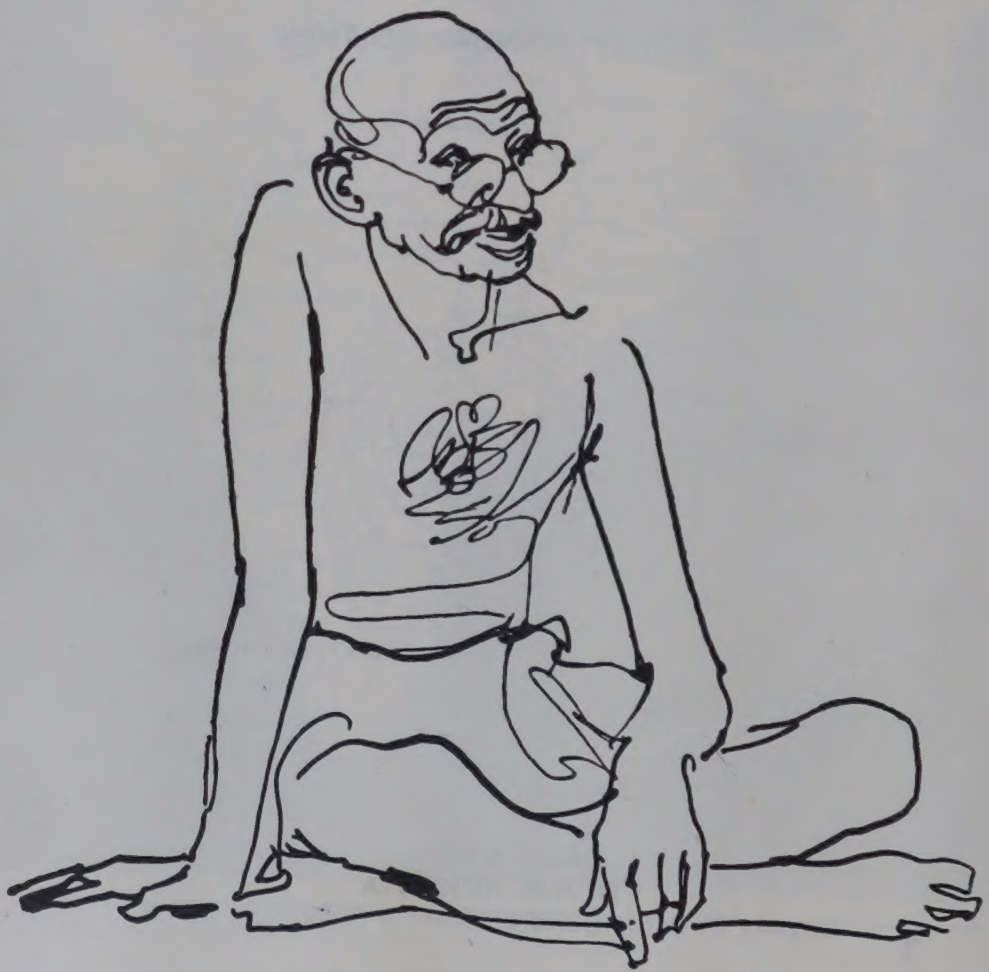
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— *Mahatma Gandhi*



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Editor & Publisher
SHAKUNTALA P. GUPTA

Associate Editor
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Consulting Artist
HARISH KHUNGAR

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AGARWAL, Dr K K, Manager, Tech Services, Hoechst India Ltd, Bombay
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AJINKYA, Dr S M, Professor of Eminence, Bombay Veterinary College, Bombay
BESSEI, W, Anim Production Offr (Poultry), FAO, Rome
BHAGWAT, Dr A L, Director, Institute of Poultry Management of India, Pune
BHASIN, Dr N R, Offr on Special Duty, Min of Commerce, Govt of India, New Delhi
BRAHMAKSHATRIYA, Dr R D, Nutritionist, Venkateshwara Hatcheries Pvt Ltd, Pune
BULBULE, Dr V D, Director, Central Duck Breeding Farm, Govt of India, Bangalore
CHATTERJEE, Dr A K, Joint Commissioner (M & MP), Govt of India, New Delhi
CHATTOPADHYAY, Dr D, Supdt, Dte of Vet Services, West Bengal, Calcutta
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GANESH, Dr R, Chief Consultant, Ganesh Associates, Madras
GARWARE, Harish, Jt Managing Director, Garsons Engineers Private Limited, Bombay
GUPTA, Dr S, Addl Director (AH), West Bengal, Calcutta
GUPTA, Dr T V L S, Asst Dir, Dept of Animal Husbandry, Andhra Pradesh
HARPAL SINGH, Dr, Dir, Central Poultry Breeding Farm, Govt of India, Chandigarh
JAGAPATI RAO, C, Director, Venkateshwara Hatcheries Pvt Ltd, Hyderabad
KELKAR, V D, Partner, Pashu Pakshi Aushadhalaya, Pune
KYADIGUPPI, Dr N R, Dep Dir (Poultry), Maharashtra, Pune
LOBO, David J, Managing Director, Deejay Group, Bangalore
LOKESHWAR, R R, Editor, Indian Council of Agricultural Research, New Delhi
MADVESH, C K, Dep Gen Mgr (Animal Health), Ranbaxy Laboratories Ltd, New Delhi
MATI, Dr K L, Mg Dir, M P State Livestock & Poultry Dev Corpn, Bhopal
MEHTA, L P, Gen Mgr, General Insurance Corporation of India, Bombay
MOHAN, Dr K, Consultant, Maruthi Consultants, Bangalore
MOHAN, Dr L, Asst Dir (Tech), Dept of Animal Husbandry, Andhra Pradesh, Hyderabad
MOHANTY, Dr J N, Dir of Animal Husbandry, Orissa, Cuttack
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PANDA, Dr B, Director, Central Avian Research Institute, Izatnagar, UP
PANDA, Dr P C, Prof & Head, Div of Anim Products Technology, HAU, Hissar
PATHAK, Dr P C, Dir of Animal Husbandry, Assam, Guwahati
PRADHAN, Dr K, Prof of Anim Nutrition, Haryana Agricultural University, Hissar
RANJAN, Dr S, Dir, Central Poultry Breeding Farm, Govt of India, Bhubaneswar
RAO, Dr B S, Deputy Commissioner (Poultry), Govt of India, New Delhi
RAO, B V, Mg Dir, Venkateshwara Hatcheries Pvt Ltd, Pune
RAO, K M, Sec, The Compound Livestock Feeds Mfrs' Assn of India, Bombay
RAO, Dr M V, Rural Development Officer, State Bank of India, New Delhi
ROSARIO, Keith J, Sr Manager-Poultry Operations, Deejay Group, Bangalore
SANYAL, Dr B, Jt Advisor (AH), Planning Commission, New Delhi
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SHARMA, Dr R S, Jt Dir (HQ), Dept of Animal Husbandry, Bihar, Patna
SHAIK IMAM, Chairman, Kasila Farms Pvt Ltd, Hyderabad
SHRIDHAR, Dr C R, Consultant, Livestock & Poultry, Erode
SHYAM KULDEEP SINGH, Chief Exec (Delhi Ops), Venkateshwara Hatcheries Pvt Ltd, New Delhi
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SURVASHE, Dr B D, Gen Mgr, Ventri Biologicals, Div of VHPL, Pune
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YAMDAGNI, Dr S, General Manager, Laxmi Feeds & Exports Pvt Ltd, Bombay

Foreword

LIVESTOCK Production was once the "dark continent" of India's agriculture. It was subjected to benign neglect for ages in the absence of its capacity for spectacular results. It survived and sustained itself among the poor and the underprivileged. Its ability to augment their income through ancillary occupations such as dairying and poultry brought this neglected sector to the attention of the Government after Independence.

Since then, increasing emphasis is being laid to the management of animals on scientific lines for better returns. In a span of 35 years, covering six Five Year Plans, the outlay on Livestock Development Programmes has gone up from Rs 16 crores in the First Plan to about Rs 1,080 crores in the Seventh Plan.

Programmes for Livestock Production can yield impressive results in terms of better nutrition and in generating income. To be successful, however, several problems have to be overcome. Among them include a fair price and a guaranteed market for the produce, particularly during the season of surplus.

Amomg the many livestock vocations to choose from, poultry has perhaps attracted more attention because of its minimal demands in terms of investment, land, skills and resources. At the same time, it ensures quick returns—as much as six months for the production of eggs and as little as two months for that of broilers. No wonder poultry-keeping has been picturesquely described as the "bearer cheque" for the poor.

The progress achieved in Poultry Production is truly phenomenal: the annual production of eggs has gone up almost eight times in the last 35 years to the current level of 14,200 million, while the output of broilers —introduced in 1970—from barely 4 million to over 70 million.

Small Poultry Units, however, are not without their hazards. For example, if poorly run, they can destroy the small farmer's scant savings, or even put him deeply into debt. Even if well run, price fluctuations can hurt him beyond recovery. The timely availability of technical inputs and extension services, supported with assured marketing and remunerative prices to the producer, are vital for the sustenance and success of these Poultry Units.

In this context, informative compendia contribute significantly to accelerate the pace of development in any enterprise by propagating appropriate technology. Thus, information per se is a key input into the process of modernization.

The publication of the 1986 edition of the INDIAN POULTRY INDUSTRY YEARBOOK is thus welcome for its value to all segments of the industry to keep abreast of latest technical developments. The fact that this YEARBOOK is now in its eighth edition testifies to its role as a ready-reference factbook of the industry, presenting technical and economic data needed for popularising scientific poultry-keeping while exploring the opportunities and rewards awaiting the enterprising.

The Publisher and the Board of Editors deserve our sincere appreciation for bringing out this useful compilation.

M. Subramanian

M SUBRAMANIAN
Secretary to the Govt of India
Department of Agri & Cooperation
Ministry of Agriculture

New Delhi
March 31, 1986

Publisher's Note

THE 1986 edition of the INDIAN POULTRY INDUSTRY YEARBOOK is the eighth in the series. It is significant in many ways. A new perspective has been presented of the emerging poultry scenario, as a result of the synoptic view of poultry developments over the past 25 years and an in-depth look at the shape of things to come in the next 15 years.

Building up on the earlier editions, the database of the 1986 YEARBOOK has been broadened further and its format modified to reflect the upswing in poultry. In the process, the new edition that has emerged has become much thicker in volume than ever before.

It is pleasure to place on record the greater participation by all segments of the industry. Consequently, a more accurate profile of the industry has been presented. Utmost caution has been exercised in the compilation of poultry production statistics. Due cognition has been taken of the varying levels of performance obtained in the field under different management conditions.

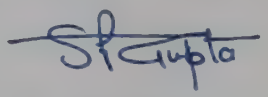
We are indebted to Mr M Subramanian, Secretary to the Government of India, Department of Agriculture & Cooperation, Ministry of Agriculture, for contributing the Foreword to this edition. It has been a source of encouragement to us.

We are grateful to Dr R M Acharya, Deputy Director-General (Animal Sciences), Indian Council of Agricultural Research (ICAR), for his valuable guidance which has contributed notably to the improved standards of this edition of the YEARBOOK. We are thankful to the ICAR for permitting him to be the Honorary Adviser. We are indebted to the members of our Board of Editors for sharing their expertise with us.

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We would like to stress that the inclusion of any data in the YEARBOOK has not been a matter of payment or any other obligation. All possible care has been taken to ensure accuracy, but we recognize that errors could creep in. To continue our efforts to improve the YEARBOOK, we welcome comments, criticisms and suggestions to help us better our best.



New Delhi
March 31, 1986

Mrs SHAKUNTALA P GUPTA
Publisher

Preface

THE publication of this eighth edition of the INDIAN POULTRY INDUSTRY YEARBOOK is welcome for many reasons. For one thing, it is bringing about an increased and widespread appreciation of the phenomenal progress made by poultry in India. It also puts together articles and reference data on topics of current interest, vital for propagating poultry on scientific lines and fulfilling its basic purpose as a tool for the socio-economic uplift of the rural poor.

Thus, the YEARBOOK has developed as the authentic databook of the industry. For anyone wishing to get first-hand knowledge of India's poultry industry, this invaluable work of reference is an essential reading.

The YEARBOOK presents an in-depth profile of the industry, reviews the progress made in the past 25 years and gives a projection for the next 15 years. Special efforts have been made to provide an authentic database to take poultry into the 21st century. Both the country and the industry are on the brink of many technological changes.

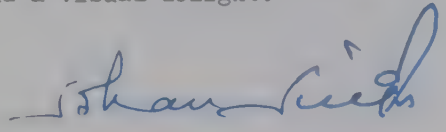
The new areas of development and opportunities awaiting the erterprising have been highlighted in the special new feature, "Poultry Towards 2000 AD", followed by an article on "The Coming Decade in Poultry" by Dr J N Panda, the friend, philosopher and guide of the industry. Four articles explore the management and marketing aspects of the booming broiler scene. Prospects for quails are spelt out in two articles. The scope of cooperative poultry marketing is presented, based on Gujarat experience.

These and related themes are covered in the first three sections of the YEARBOOK -- General, Management and Manpower Development. This part of the book is followed by a most comprehensive 300-page directory of poultry farmers, input producers and support-service agencies.

All this has helped to uncover the infrastructure for poultry production and development that has been so painstakingly built up across the country. The net result is a compendium which serves not only as a Buyer's Guide to the industry, but also as a practical textbook, embodying field experience.

In the process, the YEARBOOK has emerged as a volume of nearly 600 pages, and is reaching a size bulky enough to compromise it as a handy book of reference. So, the publisher would have to seriously consider the changes needed in its future editions to restore the YEARBOOK to its original slimness. My personal view is that the YEARBOOK would best serve the industry by concentrating itself as a databook-cum-management manual.

The publisher must be congratulated for bringing out so meticulously this publication which is both informative and a visual delight.



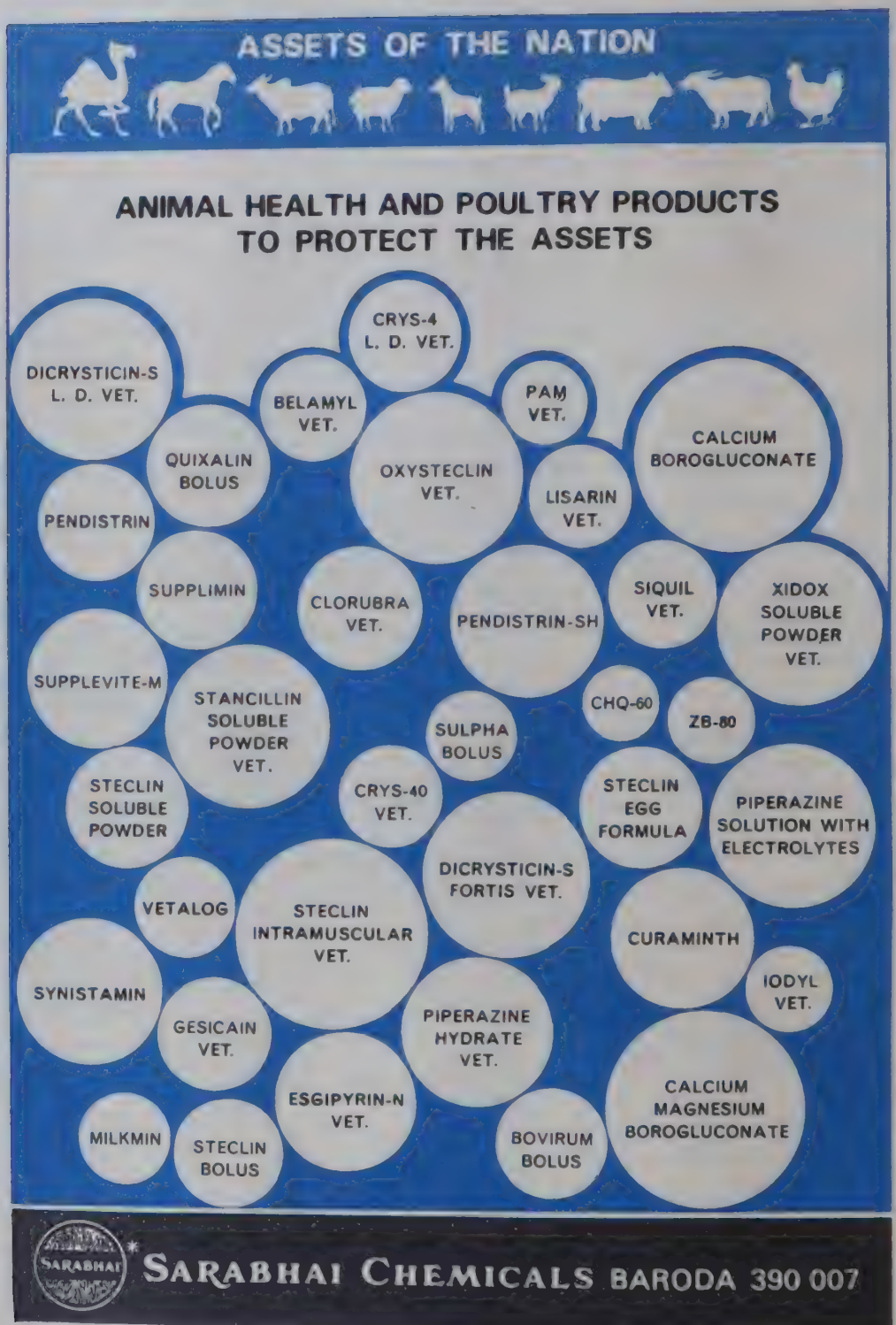
DR SOHAN SINGH SAINI
Joint Commissioner (Poultry)
Government of India
&
Honorary Consulting Editor

New Delhi
March 31, 1986

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POULTRY INDUSTRY PROFILE

The poultry industry is on the upswing and is poised for diversification. With the annual egg production exceeding 14,000 million, India ranks fifth in the world. The highlight of poultry production during the year has been the focus on broilers. The broiler boom is reflected in the increased production from 30 million in 1980 to 75 million in 1985. The sound infrastructure created so painstakingly in the past two decades coupled with high technology knocking at our doors is expected to change the face of the industry as never before.

THE year 1985 was one of the best years for the growth of poultry in India. The egg production during the year touched the level of 14,200 million from 13,000 million in 1983. However, the rate of growth has been phenomenal for broilers which rose to an estimated 75 million in 1985 from 50 million two years earlier. This is also reflected in the number of new broiler hatcheries that have gone in production. The year witnessed the rise in the prices of feed and day-old chick. Marketing continued to be the number one problem of the industry. Efforts have been made to popularise duck and quail rearing on scientific lines, raising them under intensive system of production.

Two major constraints in the rapid development of poultry have been the high cost of feed and unremunerative prices received by producers. One contributing factor to the prevailing unremunerative prices is the lack of sound marketing infrastructure in terms of collection, storage, processing and sales of eggs and broilers. Another area that demands attention is consumer education to promote the consumption of eggs and poultry meat. Inadequate support services like feed analytical laboratories,

POULTRY INDUSTRY PROFILE

The gross value of poultry production crossed Rs.10,000 million in 1985 — over sixteen-fold increase in the past 25 years.

disease-diagnostic services and monitoring of disease situation are hampering the farmers in achieving higher levels of productivity.

One noticeable trend has been the increase in flock size and improvement in the bird performance due to better management and more efficient utilization of technical inputs. Major disease outbreaks occurred in Maharashtra, Punjab and Tamil Nadu, creating a temporary setback to the farmers.

The gross value of output of poultry and its products mainly eggs and poultry meat at current prices, crossed Rs 10,000 million — over sixteen-fold increase in the past 25 years.

According to the 13th All India Livestock Census carried out in 1982, the poultry population was estimated at over 200 million. According to the industry data in 1985 there were 52 million hybrid layers, 10 million crossbred layers and 20 million desi hens. The number of broilers in 1985 was estimated at 75 million. With shortage of day-old broiler chicks, the cockerel rearing assumed significance. The cockerels numbered 50 million — the largest in any one year. In addition, other avian species estimated at about 20 million include ducks, quail, guinea fowl and geese.

PRODUCTION

The highlight of poultry production during the year has been the focus on broilers. Till recently, poultry farming was egg-oriented, but today broiler has taken the pride of place with the growing realization of its more attractive economics of production, compared to that of eggs. The broiler boom is reflected in the fact that the number of broilers produced in 1985 exceeded that of improved layer population. Between 1980 and 1985, the broiler output doubled to 75 million, while the improved layer population increased by 10 million to 62 million.

Layers: The output of egg production in the past 25 years since 1960 — when commercial poultry production made its debut — has been impressive. During this period, the annual egg production increased six-fold from a little under 2,340 million to an estimated 14,200 million in 1985. After virtual stagnancy between 1980 and 1983, the egg output picked up and went up by 15 per cent in the past two years.

The expanded egg production was largely confined to the existing pockets of poultry. About 75 per cent of the egg output is concentrated in the following belts; South: Andhra Pradesh (Hyderabad-Vijayawada-Nellore-Chittoor); Tamil Nadu (Namakkal-Erode-Coimbatore) and Karnataka (Bangalore-Bellary); North: Punjab (Ludhiana-Jalandhar-Gurdaspur-Patiala-Pathankot-Chandigarh); Haryana (Gurgaon-Delhi-Ambala); West: Maharashtra (Bombay-Pune-Nashik-Satara-Sangli) and Gujarat (Vadodara-Valsad-Surat-Kheda); East: West Bengal (Calcutta-Midnapore). The farm size went up significantly and simultaneously, concentration of poultry flock.

Brcilers: During the decade of the 'seventies, the broiler production made its beginning to reach a level of 30 million by 1980 from 4 million in 1971. In the coming five years, it would double to 150 million.The popularity of Poultry meat is mainly due to increasing cost and decreasing availability of other meats especially

Today, the annual broiler placement estimated at 83 million has overtaken the layer population of 68 million. In the next five years, the broiler production is expected to double to 150 million.

chevon and mutton. To cope with the handling of increasing number of broilers speedily and economically, the mechanical dressing of broilers needs to be considered. This would also result in the economic utilisation of poultry offals which are presently lost in hand-dressing. To cater to a wider market, it would also be desirable to introduce cut-ups to bring the poultry meat within the reach of middle and low-income consumer groups. Today, the bulk of broilers are sold live in unorganized markets in the absence of inadequate dressing facilities and refrigerated storage.

The expanded broiler production was largely confined to urban and peri-urban areas. A number of new hatcheries, most of them exclusively devoted to broiler stock, have come up in different parts of the country. In North India, one new trend was the advent of self-consuming broiler hatcheries, set up by integrated farmers. Throughout the year, there was shortage of day-old broiler chicks, and consequently rise in their price. The number of day-old broiler chicks placed was 83 million, compared to 68 million day-old sexed layer chicks. Today, the annual broiler placement has overtaken the layer population.

Other Poultry: Efforts to raise ducks, turkey and quails on scientific lines continue and currently are largely confined to government poultry farms and departments of agricultural universities and veterinary colleges. Major break-through in large-scale farming of these avian species is still awaited, although it is a matter of time. In the case of quails, the main impediment seems to be the supply of commercial stock in the absence of their ability to be transported like day-old chicks. Other avian species like goose and guinea fowl, although having tremendous potential, are more of curiosity and need some dedicated research effort for developing appropriate production systems, work out the economics vis-a-vis the current layer and livestock production systems and extension effort for their popularization.

CONSUMPTION

The per capita availability in 1985 of eggs was 19.3 and that of poultry meat, 240 gm. In the last 25 years, the per capita figure for eggs has gone up nearly four-fold. The actual increase in egg production has been much more, because during this period the human population has gone up by some 70 per cent to 748 million, while the egg production about six times. One aspect that tends to be overlooked is that the bulk of the consumption of poultry products is centred around urban centres which has the needed purchasing power, and so the per capita figures do not truly reflect the level of consumption of eggs and poultry meat. On the other hand, the Nutritional Advisory Committee of the Indian Council of Medical Research has recommended the consumption of half an egg per person per day to meet the minimal requirements of animal protein. This will become further necessary as the production of pulse is not able to keep pace with the requirements. Eggs are now considered vegetarian and have increasing acceptability in vegetarian diet. Going by this yardstick, the annual egg production to meet this demand comes to nine times the current level — an astronomical figure of 135 billion. At the end of the century — 15 years hence, this demand would work out to 180 billion eggs, six times the planned output of 30 billion.

The number one problem of the industry is the marketing of eggs and broilers. The stress, therefore, has to be laid on developing the infrastructure for marketing and consumer education.

One significant fact is that the demand for poultry meat has outpaced its supply. This demand is expected to intensify with the widening gap in the prices of other meats especially mutton and chevon and poultry meat in favour of the latter. Another key factor that would give further spurt to this demand is the advent of chicken-based fast food projects. The first of them is expected to be commissioned in 1986 and others are in different stages of planning. This would change the broiler picture beyond recognition.

Another heartening feature of the changing poultry consumption picture is the growing importance of industrial townships and pockets of affluence in rural areas as demand centres for eggs and broilers. In the absence of regulated flow of these poultry products, their prices are much higher than those prevailing in the metropolises. For example, in parts of Bihar and Orissa as also the North-Eastern Region, the egg costs more than one rupee each. In the Srinagar region of Jammu & Kashmir, the poultry meat is retailed at more than Rs 35 per kg. Many of these new demand centres of poultry are away from the traditional egg movement routes and so do not benefit from the movement of egg surpluses.

MARKETING

The marketing of eggs and broilers is the number one problem of the industry. The infrastructure for collection, storage, processing and marketing of eggs and broilers continue to be inadequate. The absence of any restraint on the production of eggs and broilers has further worsened the situation. Presently, the poultry trade is predominantly in the hands of the private traders and commission agents, operating in various metropolitan cities. They fix wholesale prices of eggs and table birds on day to day basis, taking into account the supply and demand. The prices so fixed have little bearing on the cost of production. The rural producers find it extremely difficult to get reasonable returns from the small poultry units because prices offered to them are not remunerative.

The state poultry corporations/federations have been playing a useful role in providing marketing support, but their impact has been very limited due to financial constraints. The Government of India has entrusted the responsibility for marketing of eggs and poultry at regional and national level to National Agricultural Cooperative Marketing Federation of India Ltd (NAFED) by providing financial support. NAFED has successfully intervened in checking the slumping prices of eggs in Andhra Pradesh, India's largest egg producing state, and thus helped the farmer to get better prices. However, efforts of NAFED have not had the desired impact on the overall egg marketing situation in the country.

In 1982, a private sector agency was created under the name of National Egg Coordination Committee (NECC) which declares egg prices in Bombay, Hyderabad, Delhi and other places as well as undertakes market intelligence and promotional activities. This organisation, however, is not able to administer the declared prices due to paucity of funds and cold storage facilities for bulk procurement and storage of eggs.

One constraint to increase in egg consumption is the lack of consumer education

A network of hatcheries, feed plants pharmaceuticals and equipment industry has made the country self-sufficient in almost all aspects of inputs needed by the industry.

on the high unit value of eggs and poultry products in terms of their prices and nutritional contents. Further there is a need for making the large proportion of population which is vegetarian to realise that the infertile eggs do not contain any life and thus, like milk, can be regarded as vegetarian. This will increase the demand for eggs. No sustained campaigns have been launched for egg promotion on a national scale.

With the rapid expansion of egg and poultry production, the stress has to be laid on developing the infrastructure for organised marketing and concerted sales promotion.

The current situation can be remedied by setting up a national level autonomous poultry marketing board with representatives from all segments of the industry. Already, such boards are functioning even in advanced countries like Australia, America and Canada. The proposed board could undertake marketing operations, including procurement, storage, distribution, processing and sale of eggs and poultry products. It should also engage in market intelligence and promotional activities.

INPUT INDUSTRY

A network of hatcheries (173 in public and 158 in private sector), feed plants, veterinary pharmaceuticals and biologicals and equipment industry has made the country self-sufficient in almost all aspects of inputs needed by the industry.

Poultry Feed: The annual requirements of poultry feed for commercial poultry were estimated at some 3.0 million tonnes in 1985. The feed production in the organised sector is estimated at 2 million tonnes. Some 66 members of the Compound Livestock Feed Manufacturers' Association of India (CLFMA), with 98 production units, produced about 0.4 million tonnes of poultry feed and feed concentrates constituting less than 15 per cent of the total output. Their installed capacity was 2 million tonnes. However, the bulk of feed is produced in custom-mixing units and on-the farm mixers, largely using feed concentrates, produced by the organised sector of the livestock feed industry.

The projected growth in the demand for compounded feed is estimated at 3.4 million tonnes in 1986 and 4.4 million tonnes by the end of the Seventh Plan in 1990. Although highly desirable, there is presently no statutory control on the quality of poultry or other livestock feed. A number of feed analytical laboratories is functioning in the public and private sector, including agricultural universities. Recently regional laboratories, devoted to poultry feed, have been set up by the Union Ministry of Agriculture in Bhubaneswar, Bombay and Chandigarh with facilities for analysing amino acids. Aflatoxin in feed continues to be a serious problem, although the replacement of groundnut cake by soya bean meal now available in the country would reduce the problem. In addition to depressing growth and production, it creates problems of immunosuppression and breakdown of immunity. These facilities need to be strengthened to help producing prompt proximate analysis to guide both the farmers and feed formulators in checking the quality of feed and feed ingredients.

Poultry feed was being manufactured by the small and large scale producers in the

The pureline multiplication unit, which is being set up as a part of the Project Directorate on Poultry Improvement under the ICAR, will make selected purelines available to commercial users.

public and private sector. Later, its production was reserved exclusively for the small-scale sector. However, there is a growing feeling to "de-reserve" to ensure the availability of better quality feed at competitive price.

Today, the bulk of feed is produced largely using concentrates. They are produced by the organised sector of the livestock feed industry. In addition, the manufacture of feed supplements and additives is a growing business of increasing importance. As they are outside the purview of the Drugs & Cosmetics Act, a number of small units have mushroomed, and their products tend not to conform to the specifications. Further, there have been instances of misleading labels. Such feed additives prove ineffective and at times, even harmful to the health of the birds. It is, therefore, desirable that suitable statutory measures are taken to ensure the quality of these additives produced and marketed. One way is to bring them under the purview of the Drugs & Cosmetics Act.

Another step is to keep a continuing check through analysis on their quality as well as those of the ingredients that go into the feed to ensure that the nutritive value of the compounded feed is as per the rated specifications. Another growing problem is the variable quality and price of feed ingredients. The handling and storage of feed is yet another problem that needs to be tackled on modern lines. Presently, the feed is packed in jute bags which add to the cost of marketing. With the increasing size of flocks, there is a scope for storing feed in bins/silos as well as automation in feeding birds.

A beginning has been made in the use of techniques for computerised least-cost feed formulations which provide all the required nutritional factors at the lowest possible cost under the given situation, taking into account the feed ingredients available and their prevailing costs. One way to reduce the production cost is by utilizing non-conventional feed ingredients without compromising the nutritive value of the finished feed. Research in this direction is in progress under the All India Coordinated Research Project on determining feed resources and feeding systems. The Project Directorate on Poultry Improvement will look into more critically the toxic and incriminating agents in non-conventional feeds and methods for detoxification. The research project will also involve determining nutrient requirements for high producing layers and broilers in different agro-ecological regions.

Breeding Stock: Four strain-crosses — one for layers (ILI-80) from Central Avian Research Institute (CARI) and three for broiler (B-77, IBL-80 and IBB-83, from CARI, Punjab Agricultural University and the University of Agricultural Sciences, Bangalore, respectively) were released for commercial exploitation on the recommendations of the Central Poultry Varietal Release Committee except the B-77 which was released by the IVRI before the constitution of this Committee. The purelines/strains involved in these crosses have been made available to Central and State Poultry Breeding Farms and private commercial poultry breeding farms. A pureline multiplication unit is being set up as a part of the Project Directorate on Poultry Improvement under the Indian Council of Agricultural Research (ICAR) which will centrally maintain and multiply the selected purelines and make them available to the commercial users.

One noteworthy development has been the introduction of the SPF eggs for the production of vaccines.

In addition, parent stock/commercial chicks, developed in the public sector breeding organizations, were also made available for commercial operations. In the private sector, the commercial chick stock continued to be supplied by the associates of pureline breeding farms as well as of franchisers, based on imported grandparent stock. The import of grandparents is being discouraged and breeding of purelines within the country is being promoted. However, undertaking research and development of purelines require large investments and with the high interest rates it will be difficult for the existing commercial poultry breeding farms to take it up. Exemption of such research and development effort from income tax and lower rate of interest need serious consideration. The import of exotic stocks need to be regulated so that all imports are centrally made and the stocks imported are subjected to necessary quarantine and testing of their production, adaptation and disease susceptability before these are released to commercial poultry breeding farms for their involvement in their breeding programmes. The Union Ministry of Agriculture/ICAR could undertake this responsibility. All plant introductions in a similar manner are being regulated through the National Bureau of Plant Genetic Resources.

A number of new hatchery units, mainly for broilers, were set up to meet the growing demand for broilers in the country.

A new scheme of registration of hatcheries has been initiated by the Government of India. The aim is to compile adequate statistical information regarding the placements of layer and broiler chicks and to prepare realistic estimates of the demand for feeds and their ingredients. Moreover, this would facilitate in forecasting the trends in demand for layers and broilers. It has also resulted in greater participation by commercial hatcheries in the Random Sample Tests for layers and broilers. This registration is voluntary and does not allow ensuring of proper hatchery management and quality of chicks marketed. Virtually there is no system of ensuring either the genetic capability or quality of chicks, the latter in terms of weight and freedom from defects.

Pharmaceuticals: The country is self-sufficient in the production of drugs and medicaments, required for the prevention and control of common poultry diseases.

Presently, a wide range of veterinary pharmaceuticals is being produced in the country. These include vaccines, additives and drugs. The value of their annual production is estimated at Rs 500 million, as against Rs 16,000 million for human health products. A noteworthy development has been the introduction of the Specific Pathogen Free (SPF) eggs for the production of vaccines in the private sector. Presently, the SPF flocks are being reared by the Bharatiya Agro-Industries Foundation and Venkateshwara Hatcheries Pvt Ltd, at Pune.

Although various drugs required for the treatment of poultry diseases are being manufactured in the country, there is however a need to make available within the country newer types of drugs against coccidiosis. The coccidostats commonly available in the country are no longer fully effective in preventing the incidence of the disease due to development of resistance of the causative organisms against these drugs. So, also drugs for

The infrastructure for providing health cover to birds needs to be strengthened to minimise economic losses due to frequent outbreaks of diseases.

the treatment of such diseases as CRD and E coli infections and tapeworm infestation.

Equipment: India has taken considerable strides in the manufacture of a wide range of modern poultry equipment that has helped the poultry industry to become the most sophisticated in the region. The contribution of the private sector in this respect has been commendable. Today, the country is exporting hatching and feed-mixing equipment. The trend towards rearing birds in cages has gained popularity in all parts of the country. With the increase in the average size of commercial poultry units and integrated poultry operations, the need for automation has become imperative. Also with the booming broiler production, the setting up of mechanised dressing plants has become urgent. Presently, the country has a small semi-automatic dressing plant of 500-600 birds per hour at the Central Poultry Breeding Farm in Chandigarh. Also, the offals at the manual dressing units are not put to any significant use. The establishment of mechanical plants would result in the conversion of offals to rich protein source to be recycled into poultry feed, substituting fish meal. For this purpose, offals would have to be processed in rendering plants. This development would oper new avenues for the diversification of the equipment industry.

Another field of poultry equipment is the supply of modern, computerised analytical instruments for instant and continual analysis of feed, feed ingredients as well as spot diagnosis of diseases.All this calls for new technologies, including the application of bio-technology especially in the production of disease diagnostic and prophylactic aids.

HEALTH CARE

In recent years, there have been frequent outbreaks of poultry diseases, causing significant economic losses. These have been largely attributed to management lapses especially over-concentration of birds, failure of vaccines, breakdown of immunity and lack of adequate facilities for disease diagnosis.

Further no satisfactory system exists to monitor the nature of diseases and suggest their remedies as well as prevention and control. At present, an estimated 250 disease-investigation laboratories are functioning in different states. Further, there are 22 veterinary colleges as constituents of agricultural universities and the Indian Veterinary Research Institute. Recently, private sector laboratories have been set up to cope up with the demands of the commercial poultry farmers for timely disease diagnosis. However, the need for a central agency for surveillance, monitoring and possibly forecasting of important poultry diseases and timely alert cannot be overemphasised.

The ICAR is initiating a project on developing systems of surveillance, monitoring and forecasting of important livestock and poultry diseases, which will be a step in this direction. Simultaneously, a registry of prevalent diseases in different pockets of poultry needs to be compiled with particular attention to the emerging diseases and steps taken to prepare the country to tackle them. This is being proposed under the High Security Animal Disease Laboratory by the ICAR under the IVRI. The infrastructure for providing health cover to birds needs to be strengthened to minimise economic losses due to diseases.

Research programmes need to be geared towards solving the problems of the industry. Recently, the ICAR has expanded its mandate whereby the research scientists can now provide consultancy services.

Vaccines: Vaccines are being produced in 17 public sector veterinary biological production centres, including the Biological Production Division of the Indian Veterinary Research Institute (IVRI). Moreover, there are also three units in production in the private sector. In addition, poultry vaccines are being imported under Open General Licence on the recommendations of Animal Husbandry Commissioner with the Government of India to the actual users. Two units in Pune in the private sector have based their production from the SPF (Specific Pathogen Free) eggs from flocks which are now locally reared.

EDUCATION AND RESEARCH

In the field of education and research, 23 agricultural universities through their 22 constituent veterinary colleges in addition to the Animal Science College of the Haryana Agricultural University, Hissar, and related departments offer undergraduate and post-graduate education in different areas of poultry production. In addition, they also have taken up research programmes on various aspects of poultry production. Two apex agencies are the Central Avian Research Institute (CARI) at Izatnagar, and the Central Training Institute for Poultry Production and Management (CTIPPM) at Hessarghatta in Bangalore. An All India Coordinated Research Project (AICRP) on Poultry for Eggs and Meat, under the sponsorship of the Indian Council of Agricultural Research (ICAR) has been functioning since 1971. During the current Seventh Plan, the ICAR is to take up AICRPs on poultry housing and nutrition. These projects will be placed under the Directorate of Poultry Improvement being set up by the ICAR. It has been increasingly felt that research findings are not reaching the users and not being adopted which could probably be due to technological or socio-economic constraints. The research programme would need to be geared towards solving the problems of the industry and provide guidance to the private poultry breeding farms in their research and development activities. The concept of accountability of research projects is today paramount.

Today, there is no worthwhile organization that provides consultancy service, based on research and development (R & D), to solve the problems of the industry. This is particularly affecting the growth of small units which cannot afford to have their own R & D units. Recently, in 1986, the ICAR expanded its mandate to add consultancy as a service to be offered by the laboratories. Thus, the research scientists of ICAR and agricultural universities can now provide consultancy to industry on actual cost basis, and help in the advancement of the industry.

Other Avian Species: With the production of chicken set on commercial lines, the time is now ripe for the rearing of ducks, quails, guinea-fowl, geese and turkey to provide additional sources of white meat and meet the demand for a wide variety of culinary delicacies. Their rearing is generally popular among the weaker sections in rural areas for providing supplementary income. However, no research and development efforts have been made to improve their production and performance. Much headway has been made in providing improved duck stock as well as popularising better production methods. The Central Duck Breeding Farm at Hessarghatta, Bangalore, is meeting the requirements of state farms, mainly in the

The broiler production is expected to take another leap forward with the advent of fast food projects. Egg production is likely to maintain a steady growth of about 7 per cent per annum.

eastern and southern regions, for quality breeding stock of Khakhi Campbell, capable of laying upto 300 eggs per bird per year. There is also scope for raising ducks as table bird (White Pekin breed), exceeding 3 kg liveweight in eight weeks. Quail farming for table purposes is gaining popularity, with the pioneering work done at the CARI. Turkeys enjoy seasonal demand while guinea fowl rearing is limited to localised pockets in Uttar Pradesh, Haryana and Punjab.

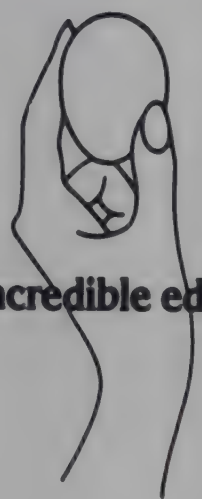
PROSPECTS

The poultry industry is on the upswing with the production going up, specially of broilers. The number of broiler parents, for example, has gone up by two and a half times between 1980 and 1985 to a level of over 800,000. The number of broiler hatcheries exceeds 100. The shortage of day-old commercial broiler chicks continues. This situation is expected to ease with the increase in the number of broiler parents expected to go in production in 1986 by 25 per cent to a little short of one million. The broiler production is expected to take another leap forward with the advent of fast food projects.

The egg production is expected to maintain a steady growth of about 7 per cent per annum despite the increasing cost of feed and day-old chicks. Simultaneously, the unit size of the flock would go up to maintain its economic viability. This may also result in integrated operations, contract farming where the farmer/producer is the foster owner. However, over-concentration of flocks at a level of undesirable density could result in outbreak of diseases and economic losses.

Simultaneously, the feed prices are expected to rise further, as also the day-old chicks and other inputs. This would result in a rise in the production cost of eggs and poultry products.

However, the industry is poised for diversification: integrated operations, increasing automation of key farm operations and processing, self-consuming broiler hatcheries and fast food projects. It can look forward to steady growth ahead.



-Courtesy American Egg Board

Import of Poultry Stock, Vaccines & Equipment

IMPORT OF PURE LINE POULTRY STOCK: The Government of India's policy relating to the import of pure line poultry stock during 1985-88 as announced on April 12, 1985, and published in the Import and Export Policy document Vol. I of the Government of India (Department of Commerce) in Chapter VIII, page 41, para 130, states thus:

"Applications from breeding farms for import of livestock (excluding equine), pure line poultry stocks, frozen semen embryo, will be considered by the Chief Controller of Imports and Exports, New Delhi, on the recommendation of the Ministry of Agriculture and Rural Development (Dept of Agriculture), New Delhi, through whom they should be routed."

REP IMPORTS: This policy also lists products, exports of which made by the Registered Exporters qualify for the grant of import replenishment (REP) licence. These products are listed in Appendix 17 of the Import Policy document and include poultry products. Under REP, the import of breeding stock has been permitted. The relevant portion (page 264-265) of the Appendix 17 of the Import Policy document states:

Sl. No.	Export Product	REP % age	Materials permitted for import	Remarks
1	2	3	4	5
G.3	(i) Poultry products including essence of chicken and poultry meat	3%	Packing materials, viz. Polyurethane	(1) Automatic feeders and waterers used in poultry breeding farms will also be allowed to be imported within the overall value of the REP licence.
	(ii) Live chicks and hatching eggs	10%	a) Grandparent stock (Poultry) b) Packing materials, viz. Poyurethane (20%)	(1) Import of Grandparent stock (poultry) will be allowed only to registered hatcheries approved by the Deptt of Agriculture, Govt of India, New Delhi. The maximum value up to which each such hatchery will be eligible to obtain import replenishment licence on its exports during the licensing year will be Rs 5.0 lakhs. (2) Automatic feeders and waterers used in poultry breeding farms will also be allowed to be imported within the overall value of the REP licence.

1	2	3	4	5
	(iii) Table eggs	3%	a) Grandparent stock (Poultry) b) Paper Egg Trays c) Packing materials, viz. Polyurethane	(1) Import of Grandparent stock (poultry) will be allowed only to registered hatcheries approved by the Deptt of Agriculture, Govt of India, New Delhi. The maximum value up to which each hatchery will be eligible to obtain import replenishment licence on its exports for this item during the licensing year will be Rs 50,000. (2) Same as in Remarks (2) and (3) against Sl. No. G.3 (ii) above.

IMPORT OF POULTRY VACCINES: The Chapter VII of Special Licensing Provisions of the Import & Export Policy document Vol. I refers to the import of poultry vaccines on page 42, para 132 thus:

"Import of poultry vaccines (all types) will be allowed under Open General Licence to poultry farms/hatcheries approved by the Ministry of Agriculture and Rural Development, subject to the conditions applicable thereto."

Conditions governing their imports are listed in the Appendix 6 of this document. On page 159, the categories of eligible importers for poultry vaccines of all types are listed under item 10 thus: "Poultry farms/hatcheries, approved by the Department of Agriculture and Cooperation, New Delhi." Additional conditions stipulated in the case of the import of poultry vaccines are listed in para 15, page 165-166, of Appendix 6.

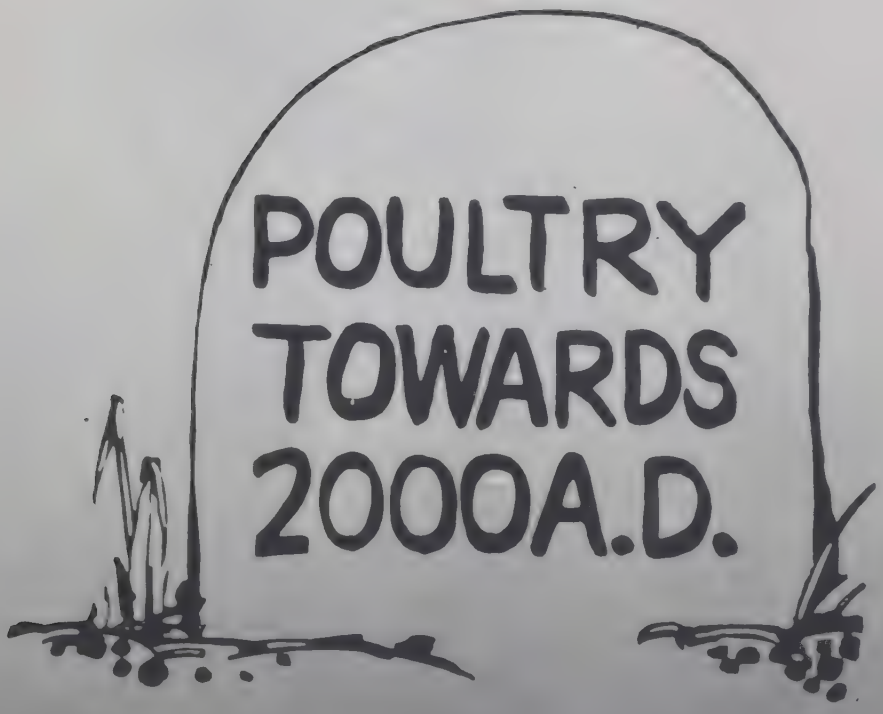
IMPORT OF FISHMEAL AND EGG & POULTRY PROCESSING EQUIPMENT: Import of fishmeal plant and egg and poultry processing equipment is permitted under open general licence as listed in the Import and Export Policy document (Vol. I) in Appendix 1, Part B, on page 114, as under:

" v) Machinery and equipment for fishmeal plant:

Continuous fishmeal plant with oil recovery unit complete with fish chopper, double screw press, pulveriser cyclone, product collector, bagging machine, oil recovery unit, sharpless centrifuge, oil purifying unit and oil packing unit.

vi) Egg and poultry processing:

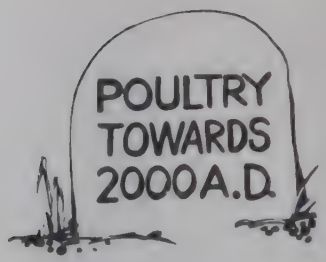
1) Poultry processing plant;
2) Egg grading and packing material equipment; and,
3) Egg washing, breaking, liquid egg pasteurization, homogenizing, packing and freezing equipment."



The growth of poultry industry in the last decade has been phenomenal, the like of which has not been recorded in any other sector of agriculture anywhere. The industry is poised for major changes, and there is no knowing where India's poultry will be at the turn of the century — mere 15 years away.

What would be the emerging poultry scenario in 2000 A.D.? What would be the total annual production of eggs and broilers? What would be the level of per capita availability of eggs and poultry meat?

Answers to these and related questions are presented in the following pages by eminent poultrymen.

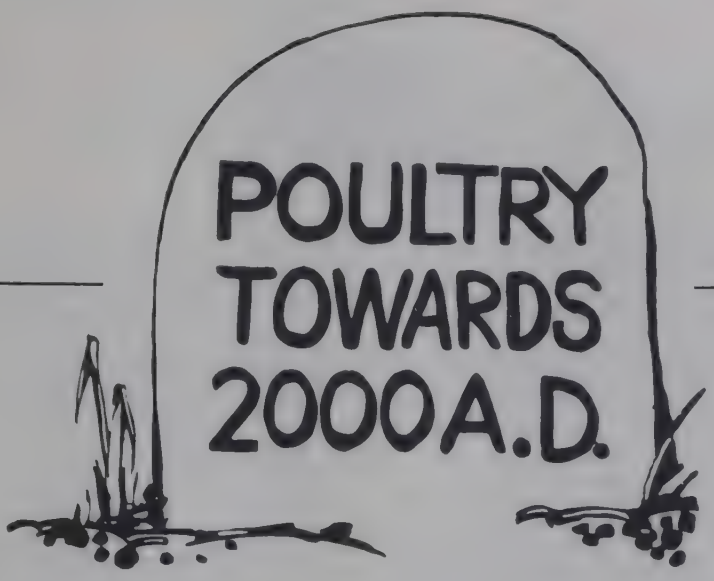


POULTRY TOWARDS 2000 A.D.

PROJECTIONS

Egg production	30,300 million
Broiler production	400 million
Per capita egg availability per year	30 eggs
Per capita availability of poultry meat per year	540 gms
Improved laying stock	135 million
Requirements of day-old layer chicks	150 million
Requirements of day-old broiler chicks	450 million
Feed requirements	7.5 million tonnes
Value of poultry products	Rs.35,000 million

Human Population: 1,000 million



"Ready for the Big Leap"

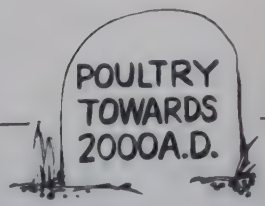
—*Dr H.C. Saxena*
General Production Manager,
Agricultural Development Corporation,
Jeddah, Saudi Arabia

THE potential for poultry production in India is reflected in the amazing growth of the industry during the last 20 years, the like of which has not been recorded in any other country of the world. Poultry-keeping started as a back-yard venture but has now grown into a full-fledged commercial agro-business, with investment running into millions of rupees. The modern poultry industry really started in India in early 'sixties with the introduction of world famous hybrid stock and balanced feeds, coupled with a substantial financial support from the Government for creating infrastructure facilities, all needed to nurture an infant industry.

The estimated value of poultry production which was Rs 1,755 million in 1971 has increased to Rs 10,000 million by 1985 -- an increase of nearly six times in a short span of fifteen years. The industry is now firmly established. Even with a per capita consumption as low as 20 eggs per person per year, India is already the fifth largest egg-producing country in the world -- no mean achievement!

Over the past 15 years, the production of eggs and poultry meat has grown faster than that of any other major food industry in the developing countries. According to FAO statistics, in the livestock sector of the developing countries, the output of bovine, sheep and goat meat and milk grew by hardly 3 per cent per year between early 'seventies and the early 'eighties, and that of pork rose by about 5 per cent. However, the production of poultry meat and eggs recorded increases by as much as 8.5 and 6 per cent respectively. This paper describes the factors that led to this fantastic growth as also what the poultry situation is likely to be 15 years hence -- the year 2000 AD.

The factor that has contributed to the rapid growth of poultry industry is the availability of various inputs and services. These factors are common to all



developing countries, with special reference to the Indian situation.

Hybrid Layer and Broiler Chicks: The genetic potential of a hybrid layer now is nearing 280-290 eggs per year. The broiler grows to a market weight of 1.5 kg in less than six weeks of age. A continuous genetic selection assures higher production capabilities per layer or broiler chick. India has more than 200 hatcheries, and all major internationally reputed stock are available. Also, work on developing new hybrids is in progress at the Covernment farms and research institutes in the public and private sector.

Quality Feeds: Data regarding nutritive requirement of the chicken and the know-how to manufacture quality feeds on mass scale have resulted in the spurt in the production of feed during the last 20 years. Scientists are continuously working to explore many ways to produce least-cost, high-performance rations, using locally available non-conventional feedstuffs (NCF). The feed industry is firmly established in India and has the capacity to take care of the expansion expected during the next 15 years.

Housing and Equipment: Improved environmental conditions, specially protecting birds from the ill-effects of higher ambient temperatures and providing them with better (feeding and watering) equipment, have helped tremendously in realizing the bird's genetic potential to a maximum. Further, research in environmental control and engineering promises to put the bird in an environment which will help farmers realize its fullest potential — be it meat or eggs.

Vaccination and Disease Control: Modern technology has led to the production of vaccines which protect the birds from the ravages of killer diseases. Modern disinfectants keep the bacteria, fungi and viruses out -- all factors that help to keep losses due to diseases to an "acceptable" lower level. We don't hear of epidemics any more, and mortality in layer flocks seldom exceeds 10 per cent per year. Drug usage is reduced further which has increased profitability on the farm. Specific drugs are available to combat diseases, when necessary.

Research and Extension: Research and extension by the Government and the universities produce solutions to the local problems, benefiting the farmer. Improved management practices, tested on government and privately-owned farms, have aided in increased production. Special attention has been given to provide training of staff on farm management on an "on-going" basis. Attention to management, selection and training as well as "incentives" has already produced good results on some farms.

Finance by Government, Banks: Largest single contribution of the Government has been to provide long-term credit on low interest, which has acted as a catalyst for the development of the industry. Investment by the banks have helped entrepreneurs enter the poultry business, and the present-day large poultry units are run as a sound commercial enterprise.

Government Incentives for Poultry: In early phase, the profit from poultry farming was exempted from income tax, thus encouraging capital saving to be directed to this new industry. A firm governmental fiscal policy on exemptions or subsidies has gone a long way in establishing and nursing a new-born industry. Early help by Government of India by way of exemption of income tax, rebate on electricity rates, etc, went a long way in establishing the poultry industry in India.

While the above factors have helped the industry in the positive way, there have been many constraints which have had a "negative" effect on rapid growth of the poultry industry. Some of the impediments are high feed costs, unpredictable, often unremunerative, wholesale prices of eggs and poultry product, and inadequate marketing infrastructure. These factors act as "snake-and-the-ladder" game and unless remedied will continue to act as a deterrent to the further rapid progress which the industry is capable of.



TARGETS FOR 2000 AD

How then should we view the shape of industry fifteen years from now? Fortunately, the future augurs well for the industry. The world demand for table eggs will continue tc grow and almost certainly reach 720,00C million by the year 2000 AD while a more optimistic forecast by the French organisation, Centre Francais de Commerce Exterior (CFCE), puts the figure at over 900,000 million. This compares with their estimate of 530,500 million for 1985 and a figure of 368,000 million for 1975. Depending upon the interaction of many factors, the CFCE forecasts that the world demand when compared with 1975 could gain between 97 to 146 per cent by the year 2000 AD.

In developed countries, an expansion of between 46 to 53 per cent is forecast, while the corresponding percentage spread for the EEC is even more modest at between 19 and 25, contrasting markedly with anticipated growth for China of not less than 217 per cent and possibly even reaching 382 per cent.

A substantial increase in demand is forecast for the Arab countries as well as Egypt, Algeria, Morocco, Iran and Iraq — all countries with large human populations Kuwait and UAE may record no change as the per capita consumption of shell eggs at 250 is already very high. Libya, Syria and Saudi Arabia are expected to record about 33 per cent increase in the next 15 years, bringing per capita consumption to between 200-260 eggs per year.

According to Mr B V Rao, Chairman of the India's National Egg Coordination Committee, the annual output of eggs could rise to 180,000 million eggs by the year 2045 compared to around 15,000 million eggs during 1985. It is estimated that human population in India by the year 2000 AD will reach to about 1000 million. Then, with the estimated egg production by 2000 AD of about 120,000 million eggs, the per capita availability could rise to 120 eggs per year. This increase is very large compared to 1985 projected figure of about 20 eggs per person per year. However, with the inputs firmly poised, such an increase is possible mainly due to: (a) an estimated several fold increase in the purchasing power; and (b) a greater awareness for a balanced diet.

Mr Rao quotes a survey which indicated that 45 per cent of people were not eating more eggs simply due to their non-availability. A further 37 per cent stated economic reasons for not buying more eggs. At the same time, 82 per cent of respondents thought that eggs were good for children, even though they may not eat eggs themselves. The awareness of the nutritive value of eggs is bound to increase due to extensive exposure to media in the coming years, especially now that television is within the easy reach of the population at large.

To attain the target egg production output will require about 480 million hybrid layers compared with say 60 to 65 million today. Although expansion needed to attain the level of 120 eggs per capita is undoubtedly enormous, the inherent potential of the Indian poultry industry should not be minimized. This sector is definitely capable of expanding rapidly.

It was only in 1963 that Pfizer announced Rs 1,000 as a prize for predicting the state of civil aviation in India. Who could have thought that civil aviation in India would grow at the rate it did within the next 10 years. The introduction of Caravelles in 1963 made history for civil aviation development in India. We will most probably be saying something similar to this in the year 2000 AD for the poultry development in India. The poultry industry is ready for the big leap and will provide the needed, quality-protein food to the millions in the country by the year 2000. The next 15 years will see a "geometric-exponential" increase of several-fold in the production of eggs and poultry meat in India.■

POULTRY TOWARDS 2000A.D.

"...Expect to achieve an annual production of 62,000 million eggs and 800 million broilers."

–B.V. Rao
Managing Director,
Venkateshwara Hatcheries Pvt. Ltd.,
Pune

We hope and expect to achieve an annual production of 62,000 million eggs and 800 million broilers by 2000 AD. The desired level of production of 180,000 million eggs and 6,000 million broilers can be achieved by 2015, provided proper atmosphere for growth is created.

Assuming a human population of 1,000 million, the per capita availability per year would be:

Eggs : 62 eggs

Broilers: 1 kg chicken

By 2015, it would reach a level of 180 eggs and 6 chickens.

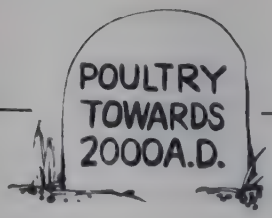
The increase in egg production will not be at the cost of broilers, nor will the growth of broilers will be at the cost of eggs. In fact, they will be complimentary to each other. Both sectors will grow hand in hand. Of course, this calls for a very careful planning of the growth. The industry and the government must work together to achieve this increase simultaneously in both the sectors.

The industry's future depends on our ability to maintain and improve the quality of our genetic stock. A continuous programme of research will have to be undertaken towards this goal. Considerable progress has already been made in this directon. In fact, the quality of the genetic stock bred in India is second to none — indeed better than what we used to import. The dependence on importation of grandparents is already dwindling and long before the turn of the century, it will end once for all.

Raising the per capita availability of eggs and broilers is in fact the biggest challenge that the industry has to face. We are at a very low level of per capita availability. At present, we are producing and consuming only 18 eggs per capita. Compared to advanced countries where the egg consumption rate is 250 to 300 eggs per capita and the average consumption of the developing nations of 30 eggs per capita, this is too low. The reasons are many. But the most important reason is the lack of awareness of the nutritional value of eggs and chicken meat, and the realisation of the fact that these are the cheapest sources of protein.

We are launching a very forceful promotion compaign throughout the country. The industry and farmers' organisations like NECC as well as the Government should join hands in carrying out this campaign successfully. We will endeavour to coordinate with all the agencies concerned and interested in the welfare of the poultry sector for carrying out this campaign successfully.

Poultry has already proved its capacity to uplift the rural population. In the years to come, more and more people will take to poultry farming as a means of employment, and also more and more people will consume eggs and chicken meat. I am sure that by the turn of the century, poultry will come to be recognised as one of the most significant tools of eradication of rural poverty and malnutrition.■



"Poultry will be the single largest source of quality nutrition..."

– *Shaik Imam*
Chairman,
Kasila Farms Pvt. Ltd.,
Hyderabad

Poultry is already making a significant contribution to improve the quality of urban population. Over the next 15 years, it will be the single largest source of quality nutrition for the rural as well as the urban people. Indices of growth are given below:

Total annual production:

Eggs : 26,000 million

Broilers: 750 million

Per capita availability:

Eggs : 29

Broilers: 850 gms

Egg production will not increase at the cost of broilers. Each will grow independent of the other.

Integrated production:

Eggs : Very limited prospects

Broilers: More and more of the production will be based on integration.

Size of commercial operations:

Eggs : Average 25,000 layer farms with a few going upto 5,00,000 birds.

Broilers : Average 5,000 birds per week with some going upto 1,00,000 per week.

G P Import: Even with substantial relaxation of import policy the industry will heavily depend on indigenously produced grandparents.

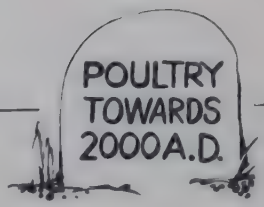
Strategy to raise per capita consumption : The main target must be rural masses. Promotional approach for the urban population and organised handling, storage and distribution system for the rural areas.■

"...Broiler production may have a faster pace..."

–*Dr M.R. Choudary*
Director,
Central Training Institute for
Poultry Production & Management,
Hessarghatta, Bangalore

Total annual production of eggs and broiler will reach approximately 60,000 millions and 120,000 millions respectively by 2000 AD.

Per capita availability may reach to 50 eggs and 300 gms of broiler meat by 2000 AD.



Poultry industry of the country which was primarily egg oriented till recent years has assumed a new dimension with a phenomenal growth of the broiler industry during the last three years. With the present rate of growth, broiler production may have a faster pace by 2000 AD, though not at the cost of egg production. Marketing network would make available the processed broilers and will boost broiler production in future years.

Large-scale integrated egg and broiler production operations in coming years will further boost vertical growth of allied industries connected with the manufacture of compound poultry feed, vaccines, veterinary pharmaceuticals, feed additives, poultry equipments and appliances.

With the increase in demand for broiler meat, integrated broiler production operation seem to have better prospects.

Optimum size of commercial operations may increase to 50,000 layers on the egg side and 25,000 broilers per 8-week cycle on the meat side.

With the massive pure line breeding programmes launched by the public and private sectors, the industry will be able to meet by 2000 AD, the requirements of the parent stock to cater to the need of commercial egger and broiler type of chicks.

To raise the per capita consumption of eggs and broiler meat, all out efforts should be made by both public as well as private sectors of the industry for consumer education programme, launch promotional activities and organise effective distribution system to make eggs and poultry meat available in the urban and rural areas.

Poultry production can play a significant role to raise the economic status of the rural masses and improve their level of nutrition. Integrated poultry operations will generate employment avenues for the village youth and foster the ideology of production by masses.

Production of eggs and poultry meat in the village level will not only increase the per capita income, it will make available eggs, the nature's best food, to the rural masses.■

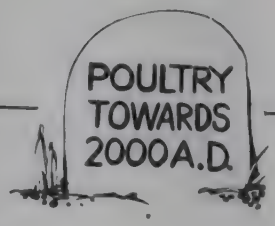
"...Non-conventional feed sources will be increasingly used."

—*N.B. Godrej*
Director,
Godrej Soaps Pvt. Ltd.,
Bombay

It is very difficult to estimate the demand for feed by 2000 AD. However, one can expect that the industry would continue to grow at an annual rate of approximately 10 per cent. Bulk handling of feed is economical only if labour costs are high and farm sizes are large. If economic growth is rapid for the next 15 years, then we can expect that bulk handling will come in vogue.

Because of the highly competitive nature of the feed industry, there is no doubt that there will be adequate growth to meet the demand, whatever it may be, in 2000 AD.

There is no reason to expect that India will be deficient in 2000 AD. Indian cereal production is one of the lowest in the world, and we could expect much higher cereal production in 2000 AD.



Although India has the highest arable land in the world, its cereal production is much less than the United States, China and the Soviet Union. By 2000 AD, India should be the largest producer of cereals in the world. However, for economic reasons, non-conventional feed sources will be increasingly used. New oilseed meals like rapeseed and sunflower will probably be widely used in 2000 AD. As an energy source, one would expect that by 2000 AD, enzymatic technology should be available to convert cellulose into starch and sugars, while rice husk, bagasse, wood chips could be converted into starch for animal feed.

Jowar is already being used as a major substitute for maize. Bajra is currently too expensive to substitute maize, and if wheat is in surplus, there is no reason why it cannot be used to substitute maize. Currently, maize is more expensive than wheat.

Regulatory measures can never ensure quality. They merely stifle innovation. Intense competition between farmers will ensure that only good quality feed is successful in the market place.

The rise in the prices of feed has usually been less than the rate of inflation. This trend is expected to continue. It is very difficult to predict what would be the trend of general inflation.■

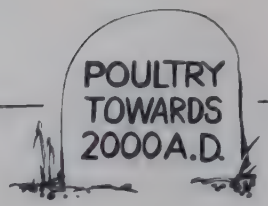
"The prospects for poultry farms and feed industry are very bright..."

—*M.K. Dattaraj*
Technical Director,
Mysore Feeds Pvt. Ltd.,
Bangalore

In India, poultry is steadily growing. During 1981-85, the poultry feed industry has registered a growth rate ranging from 7 per cent to 10 per cent. On a modest estimate, by 2000 AD. It will be producing 10,00,000 tonnes of feed a year. The organised sector units comprising CLFMA member units shall be producing about 8,00,000 tonnes of feed and the remaining 2,00,000 tonnes will be by the 'on the farm' mixers. The industry is fully geared to meet the demand. In the poultry industry itself, broiler farm growth is faster than the layer farm growth and therefore broiler farm will take lead over the layer farm.

Poultry farmers are both well informed these days and they are also cost conscious. Indian climatic conditions warrant packing of poultry feed in jute (gunny) bags. The cost of jute bags is steadily increasing, pushing up the packing cost and ultimately the cost of feed to the farmer. This factor forces one to find an alternative. Bulk handling of feed like transportation in container trucks, storage in bins at farms, mechanical handling of feed and the like has to come into vogue, and jute bags packing has to give way for the bulk handling of feed.

Another important factor is the ever increasing cost of poultry feed ingredients. This factor also forces the industry to find an alternative. The use of non-traditional feedstuffs in larger quantities has to come into play. It may be noted that already about 300 such non-conventional feedstuffs have been identified for inclusion in poultry feeds. The use of agro industrial by-products suitably enriched with



synthetic nutrients, modified products created by mechanical, chemical, microbial treatment, single-cell proteins, algae, sea-weeds, forest products etc., has to come into vogue.

Low-cost cereals like bajra and jowar has to be used in larger quantities, though they have some nutrition inhibiting factors including tannin. With the available knowledge of vitamins, amino acids and minerals, it is possible to use these cereals, supplemented with synthetic preparations.

The farmer needs poultry feed that will produce results on the farm. The ISI has set a pattern and the poultry industry has to give a feed at least to this set pattern, or still better than that. The organised sector units are proceeding towards this. Quality control analytical laboratory along with research and development laboratory will become a permanent feature of the feed industry.

Modernising existing feed plants with computerised automatic batching system inclusive of silos has to take place for efficiency and sustained quality feed output. Already, some units in the organised sector have installed such systems. All these factors demand entry of scientific entrepreneurs not only in the feed industry, but also in poultry farms.

Indian population is getting accustomed to taking more eggs and poultry meat. Thus, there is a steady growth. The prospects for poultry farms and feed industry are very bright in the future years to come.■

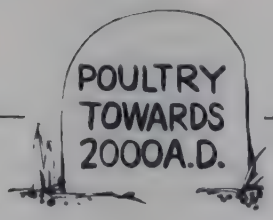
"...Synthetic amino acids to play a significant role in feed formulations."

—*Dr K. Srinivasan*
Technical Manager,
Lipton India Ltd.,
Bangalore

About 25 years ago, in the backyard livestock farming, only by-products of grains and cooking at home were used to feed poultry and cattle. The performance of the livestock was extremely poor, but the farmer was unconcerned about the profitability since no investment of his capital was involved. However, in the modern livestock farming where profitability is the major factor, several aspects of farming have to be properly optimised. With the introduction of hybrid cattle and high-performance strains of poultry, the traditional raw materials of yesteryears are of very limited value.

To enable the livestock perform to the level of its genetic potential, there is need to have a closer look at the various ingredients of the feed and formulations themselves.

While there are quite a few good quality raw materials in the production of high quality feeds available in this country, their prices and availability fluctuate widely during different periods of the year. With the escalating cost of raw materials and the feed, there is no proportionate increase in the prices of livestock products, particularly milk and eggs. As a consequence, there is a tendency on the part of the farmer to go in for cheaper ingredients. The incidence of adulteration of raw material is also on the increase. Further, the facilities available to the farmer to analyse the raw materials are limited. In the circumstances there is greater need:



(i) to look at the various alternatives available for different raw materials for use in feeds;

(ii) to analyse the ingredients before use. It is in this respect that feedsformulated scientifically play a significant role.

We will analyse below briefly the availability of the various feed ingredients and alternate choices in the years ahead.

Grains: Maize and jowar have shown steady rate of growth of only 1.3 per cent in the last ten years. While the area of cultivation of maize is substantially increased, that for jowar is more or less stagnant. However, with the introduction of scientific methods of farming, the effective control of insects and pests problem and the use of high-yielding strains of grains, the output per hectare has increased. It is expected that the maize production will go up to 9 million tonnes and that of jowar to 12 million tonnes by the year 2000 AD. We may safely assume that the requirement of grains for feed manufacture would be more or less met with this quantity.

Rice bran: At the present, the only cheap oil source in the feed is rice bran. In the recent months, the availability of good quality rice bran has become increasingly difficult. Inspite of certain incentives from the Government, the conversion of huller rice mills to sheller rice mills progresses slower than expected. As a consequence, the rice bran that is available has very high levels of fibre and sand silica, restricting its use in poultry feeds. It is well known that certain levels of oils are absolutely essential both for energy and for essential fatty acids. Inspite of the fact that in India, oil is not a cheap source of energy, inclusion of fats in the feeds is absolutely necessary for various nutritional considerations. We may necessarily have to explore, in the circumstances, the use of fats of animal origin like tallow.

Proteinous sources: So far, groundnut cake is the most popular choice of proteinous source in feeds in most parts of our country. However, with the increasing incidence of aflatoxicosis in poultry, we expect that unless the raw material is suitably processed or treated with fungistat at the time of production, its usage may decrease.

The raw material which can to a large degree substitute groundnut meal is soyabean meal. However, it is nutritionally deficient in sulpher amino acids and should be suitably toasted to annul its toxic factors. We expect the use of soya to increase in the years ahead, provided appropriately toasted soya meal becomes freely available.

The current availability of the various proteinous sources is given below:

Commodity	Requirements (000 tonnes)
Maize	1,530
Jowar	400
Rice bran	300
Groundnut cake (Expeller-pressed)	1,000
Soyabean	450
Fishmeal	250
Rice bran (Expeller-pressed)	430

Fishmeal is known to be one of the excellent raw materials in poultry feeds. However, in the current years, the availability of good quality fishmeal is becoming more and more scarce, mainly because of poor catches. The use of meat meal as an alternative is to be considered with extreme caution because of fluctuations in its quality. Considering the availability of huge quantities of



carcasses, there is a great need for setting up modern meat meal processing factories, organising their collection and proper sterilisation. The total absence of pathogenic organisms in this animal by-product to be used as a feed ingredient has to be doubly ensured.

Synthetic amino acids: Based on the above and considering the likelihood of the essentialities of usage of protein sources like sunflower, we expect synthetic amino acids like methionine, lysine etc., to play a significant role in feed formulations in future. However, at the present, use of such synthetic amino acids in feeds does not appear to be economical, mainly because the import duty forms the main chunk of their costs.

To sum up we expect that in the next decade:

- the energy sources will be adequately available for the production of feeds;
- the good quality proteinous sources will become increasingly scarce, necessitating the use of synthetic amino acids;
- there will arise a need to explore proteinous sources like meat meal. ■

"The estimated demand for poultry feeds will be 11 million tonnes..."

—*Dr S. Yamdagni*
General Manager,
Laxmi Feeds & Exports Pvt. Ltd.,
Bombay

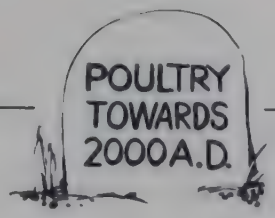
The estimated demand for poultry feeds by year 2000 AD will be 11 million tonnes to sustain a population of 250 million improved layers and 300 million broilers. The egg production will be around 50,000 million per annum. The current population of 80 million improved layers and 60 million broilers consume about 3.5 million tonnes of feed.

The industry is fully capable of meeting this demand. Computerised modern feed plants of 50,000 tonnes per annum capacity will be the most efficient units, and these are being established indigenously.

The feed industry has been using maize, wheat, bajra, jowar and tapioca. More efficient use of these ingredients will be made by 2000 AD. Synthetic amino acids will have to be used. Sufficient raw materials will be available to produce 11 million tonnes of poultry feeds in the year 2000.

Being highly competitive product the quality gets regulated automatically. Moreover since the feed quality is immediately reflected in the production performance no regulatory measures are required. Only the efficient feed manufacturers producing high quality feeds will survive.

The egg and broiler meat price will get adjusted according to inflationary pressures and poultry farming will remain an economic proposition upto and even after 2000 AD. ■



"Disease surveillance and monitoring are important..."

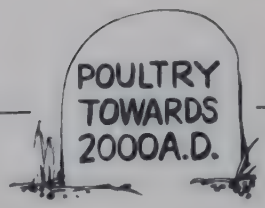
—*Dr D.S. Gorhe*
Chief Executive,
The Bharatiya Agro Industries
Foundation, Pune

Disease surveillance and monitoring are an important tool in the control and prevention of livestock diseases in general and poultry in particular. But the systematic work on these lines is very much scanty. In recent past, emphasis has been laid on the epidemiology of poultry diseases. In fact, much dividend can be paid by generating valuable demographic data on poultry diseases rather than mere collection and compilation of data. It might be worthwhile, if the approach for the disease surveillance and monitoring system is oriented towards computerising. The aim is to develop the computerised programmes for disease intelligence service to forecast the changing panorama in the control and prevention of infections.

The development of precise immunodiagnostics need no emphasis and it would be necessary to keep pace with the highly sophisticated diagnostics and vaccines developed elsewhere in the world. The quality control of biologicals in most of the production organisations of the country, is undertaken on SPF poultry flocks according to the needs, but difficulties are generally experienced in cases of highly sophisticated and sensitive tests. In order to adopt the recent advances made in this direction, the basic requirements of raising the SPF poultry flocks and genetically-developed disease-resistance and susceptible poultry lines cannot be ignored. With this approach, the task of development of "diagnostic kits" and battery of tests shall be much easier and can be well within reach of poultry farmers for quick and timely diagnosis of disease problems.

The role of bio-technology in poultry health has already attracted considerable attention. The projects have been submitted from central institutes like Indian Veterinary Research Institute and Central Avian Research Institute in collaboration with Department of Science and Technology. The development of "Hybridoma" and monoclonal antibody system would henceforth go a long way in the diagnosis of many such diseases. The isolation and use of surface or membrane antigen(s) containing glycoproteins relevant to specific disease coupled with monoclonal immunoglobulins will be an important aspect of molecular biology for development of precise and effective vaccines. Likewise, research on embryo vaccination with such vaccines and development of synthetic vaccines could be the major thrust in the field of immuno-prophylaxis. Needless to emphasise, research on functional synergetic vaccines is very much in the offing, and efforts need to be made in our laboratories as well. At the same time, it may be equally rewarding if additional inactivated virus vaccines are developed wherever possible and useful through extensive research programmes to safefuard the poultry health.

India is a vast country with a few biological product organisations to meet the ever-growing challenges of poultry infections. The problems in maintaining the cold chains in the delivery system up to the farmers door are of great magnitude. Consequently,



the research is very much needed to innovate and develop the delivery system. The biological products units concerned with production of immunobiologicals may undertake systematic work to innovate and develop the delivery system of vaccine employing cryogenic facilities, especially for the cell-associated binary vaccines and other extremely fragile vaccines.

Although, the Government of India has decided to establish a central institute for quality control and prompt investigation of diseases of livestock and poultry, there is an emergent need for the development of national standards for biologicals. This would not only serve the purpose of the quality control of the products, but shall pave the way for maintaining the uniformity of laid down standards and assessment of the immuno-biologics and immuno-prophylactics in right perspective.

A successful poultry programme to the benefit of the farmers can be attained only if extensive health services are monitored through specialised "poultry diagnostic laboratories".

A few laboratories which have the expertise in rendering such services in India do not seem to be enough. It would thus be timely, if well-organised laboratories are established in various parts of the country, with a grid system, to serve the cause of poultry health monitoring and surveillance of the advanced poultry industry at the turn of 2000 AD.

Considerable work is being done to develop disease-resistance line of poultry, but this is yet to become an economic proposition for the poultry industry. Genetic engineering, undoubtedly, has shown an ample scope in this important field of research. Accordingly, the poultry industry, when flooded with DR genetic lines of high productive performances, would obviously create tremendous impact on health care in our country.■

"...One can visualize a major shift in areas of animal health and production."

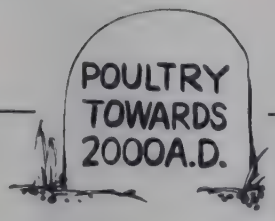
—*Dr P.P. Jamkhedkar*
Veterinary Services Manager,
Pfizer Limited, Bombay

By visualising 'poultry health picture' of today and tomorrow, some important points emerge. The incidence of various diseases is not well documented. However, there is no reason to expect that the diseases which occur in poultry flocks elsewhere in the world should be any different. The same genetic material from the foremost international breeding organisations are to be found in most countries and thus egg transmitted diseases will have probably been well distributed.

One can broadly envisage the pattern of poultry disease in 2000 AD as follows:

- likely increase in viral diseases;
- environmentally induced diseases;
- increase in metabolic disorders;
- increase in mould problems;
- increase in mycoplasmal infections;
- bacterial infections, particularly E coli septicaemia; and,
- parasitic diseases - coccidiosis - ectoparasites.

Based on the revolutionary researches in the field of biotechnology, one can visualise a major shift in areas of animal health and production. One does not need the help of astrology to predict the application of



revolutionary scientific development.

Biotechnology is admittedly a revolutionary science trying "to make the most of nature" by using selected characteristics of living organisms to produce safer and more efficacious products for animal health and production in the best interest of society at large.

In summary, it can be said that the important specific areas of application in animal health and production which are expected to emerge from the multidiscipline of biotechnology would be:

- faster, more accurate diagnosis of diseases;
- improved disease prevention;
- better therapeutic products and routes of administration;
- more cost effective nutrition and growth factors; and,
- advancement of reproductive physiology.

These are among the most promising applications in animals, with far reaching impact!

Before the findings of new researches would have an impact on health care in India, many things need to be achieved by Indian poultry industry, governments, farmers, and other concerned. Before adaptation of modern technology, one has to 'narrow the gap' that already exists between the husbandry practices, environmental control, technical services, between developed countries and developing countries.

Additional factors in India are the presence of a large number of 'desi' birds complicating the issues, particularly of disease control and varied climatic zones.

All concerned should be serious about "extension of knowledge to farmers". ■

"The disease control and prevention programmes may be totally revolutionized."

—Dr Y.K. Rao
Proprietor,
Agvet Industries,
Hyderabad

If we look back 20 years and review the development of poultry industry in India, the growth of disease problem, and extrapolate these for the next two decades, we should be ready to face major problems from other diseases known and unknown in our country viz: IB, ILT, AI,etc.

Luckily we have some thing to fall back on the experience of the countries where poultry industry and disease prevention and control programmes are well developed. Therefore, instead of waiting till the calamities strike us, we should be ready to face these through active and passive immunization techniques.

If the trends in the Western countries are any indication, we should expect radically new techniques like genetic engineering and space research programmes used in the production of better vaccines and for the diagnosis of disease problems.

Research on breeding disease resistance birds would continue. However, this would provide limited results and hence could be a part of a comprehensive programme, but not a disease control programme by itself.

The impact of genetic engineering, clonal antigens and of space research



programmes may result in such developments which we cannot even contemplate today. The disease control and prevention programmes may be totally revolutionized.

Recent happenings in Namakkal and Erode areas should act as an eye-opener. When the disease outbreak occurs suddenly, the inadequacies and unpreparedness of the industry are well exposed. We achieved impressive gain in the increase of hybrid poultry population, but have not developed comprehensive package of practices for feeding, disease control and the marketing of our products. The industry's growth is a result of individual's enterprises. The government have not taken measures to regulate the growth, production, marketing and disease control. Unless this happens, we may be in for some more problems and surprises. The earlier we equip ourselves, the better could be the industry's performance by 2000 AD. ■

"Mechanical processing will almost completely replace manual processing."

— *Shaik Imam,*
Chairman,
Kasila Farms Pvt. Ltd.,
Hyderabad

By 2000 AD, the total poultry meat supply would be 8,50,000 tonnes. The non-veg fast food industry will be mainly based on poultry meat. As much as 60 per cent of the total meat source in the country will be broilers. Presently, the processing industry for poultry meat is non-existent. But, by 2000 AD, 85 per cent of the broilers produced will be processed in the automatic dressing plants. Mechanical processing will almost completely replace manual processing. Most positively, the processing industry will be in the hands of the private sector. ■

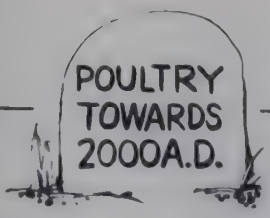
"Broiler farming... has got a very bright future."

— *Dinesh C. Kaji*
Managing Director,
Ashok Kumar Hatcheries Pvt. Ltd.,
Vill. Lakhmapur, Tk. Dindori,
Dist. Nashik

Total demand for poultry meat by 2000 AD is likely to be 200 million broilers in the country. By 1990, the figure will easily reach 100 million birds. Taking the most conservative estimate, the demand on the base figure of 100 million in 1990 would rise by at-least 10 per cent every year.

With the advent of fast food projects, poultry meat will definitely be the number one meat source by 2000 AD. Of course, piggery products will not be lagging far behind.

There will definitely be a marked shift from the present mode of manual processing for poultry meat to semi-automatic processing. Nearly 80 per cent of the birds are likely to be



covered by semi-automatic process of dressing.

By 2000 AD, the percentage of dressed broilers marketed will definitely be much more than at present.

Mechanization will only partly replace manual dressing by 2000 AD, because the areas besides the big and small cities and towns are likely to continue to operate on manual dressing basis. Private sectors would be the most suitable agency for running of automatic plants, as very efficient and timely service not only in dressing, but also in distribution, is of utmost importance.

Broiler farming and semi-automatic processing of broilers has got a very bright future in our country as the per capita consumption of broiler meat is very meagre today. ■

"Fast food projects would be very well entrenched."

—*P.K. Roy*
Director,
Arambagh Hatcheries Ltd.,
Calcutta

The average yearly increase in supply of broiler meat that we are observing is about 15 per cent. Maintaining this rate by 2000 AD, the supply should increase by 225 per cent. We are now on the threshold of a massive demand. To meet it, the supply must increase drastically. By 2000 AD, I would put the demand to increase by 500 per cent, and the supply by 400 per cent what it is today.

Though broiler would definitely be the number one meat source of fast food projects by 2000 AD, spent hens and cockerels too will be important contributors.

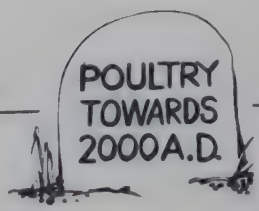
By 2000 AD, fast food projects would be very well entrenched. Therefore, major marketing of broiler would be dressed, although non-organised marketing of live broilers by small operators would be there.

The major portion of manual dressing would be replaced by mechanisation. The poultry industry in our country is led and controlled by the private sector. As such processing plants which are integral parts of both production and marketing would be most suitably run by private sector organisation, efficiently and economically. ■

"Broiler farming will become more specialised and will be replaced by integrated broiler projects."

—*Dr Harpal Singh*
Director,
Central Poultry Breeding Farm,
Chandigarh

It is anticipated that by 2000 AD, broiler population in India will exceed 500 million from the present population of 60 million in 1985. With greater awareness among consumers regarding meat quality, the demand of chicken meat will be much higher than the production. Broiler farming will become more spe-



cialised and will be replaced by integrated broiler projects.

Integrated broiler operations will consist of all the facilities ranging from rearing of parent stock to the disposal of dressed meat. With modernization and changing social trends, broiler meat due to its qualities will play vital role in the fast food projects. Thus, marketing of broilers will be shifted from live broilers to dressed meat and also partly in cut up parts.

It is anticipated that by 2000 AD, India will also be able to export meat in the form of frozen chickens. Cooperative poultry processing plant will become more common, and sizable portion of the broiler population will be utilised by these slaughter houses. The cooperative sector is expected to yield encouraging results in handling large-sized broiler operations including processing plant. Technical services including marketing will be extended by co-operative technical assistance department.■

"...The turn of the century is likely to see a remarkable improvement in hen-housed production for layers and feed conversion for broilers."

—*Keith J. Rosario*
Senior Manager — Poultry Operations,
Deejay Hatcheries, Bangalore

In 2000 AD, the predominating system of housing of layers would be cages. However, for broilers while wire flooring might acquire a limited degree of popularity, the predominating system would probably be deep litter.

Particularly in the hotter parts of our country, experimentation will be done with environmentally-controlled sheds to reduce ambient temperature. If experimentation/acquisition of technology is taken up in a serious way immediately, environmentally-controlled sheds suitable to Indian conditions would be fairly widespread by 2000 AD.

Automatic feed delivery systems are likely to be adopted only by large farms with stand-by generator facilities, in view of the diffioult power situation, which is not likely to improve satisfactorily by the end of this century.

Automatic watering which are not power dependent are more likely to become popular because of the advantages they provide.

Bulk handling of feed, eggs or inputs are not, in my opinion, likely to be popular except in large and integrated operations because of the same reason — power constraints.

With the improvement in the genetic potential of commercial layers and broilers, the turn of the century is likely to see a remarkable improvement in hen-housed productions for layers and feed conversions for broilers, where 290 eggs hen-housed or more is today only an occasional achievement, this is more likely to be the norm for efficient farms 15 year hence. Similarly, feed conversion of 1.8:1 for broilers.■

Marketing is the number one problem of India's poultry industry. So, there is an urgent need for having an agency at the national level like a national poultry marketing board. It would ensure orderly marketing including remunerative prices to producers.

THE COMING DECADE IN POULTRY

Dr. J.N. PANDA
Director of Animal Husbandry, Orissa (Retd.) &
Ex-Joint Commissioner (Poultry),
Ministry of Food & Agriculture, Government of India

THE poultry industry has today reached a stage of self-sufficiency and sophistication in the production of breeding stock, feed, pharmaceuticals, vaccines and equipment to meet the current and future needs.

During the last 15 years, the annual production of eggs has nearly trebled itself to some 15,000 million, while broiler production has increased twenty-fold to 75 million. Notwithstanding this phenomenal growth--the fastest in India's agricultural sector--the per capita annual availability continues to be insignificant: about 20 eggs and 250 gm of poultry meat.

Despite the depressingly low per capita availability of poultry products, the demand, specially of eggs, lags behind production. In addition to the poor increase in demand, there are a number of other factors affecting the growth of the industry. The number one problem of India's poultry industry is marketing, not production. Some of the constraints in marketing are:

one, unpredictable and, often unremunerative, wholesale prices of eggs and broilers, subjected to the cyclic boom-and-bust phenomenon;

two, the virtual absence of sustained promotion of eggs and broilers as low-cost, high-value food items in terms of their price and nutritional contents; and,

three, lack of marketing infrastructure in terms of collection, processing, storage and marketing of eggs and broilers.

Until recently, the egg and broiler marketing was handled by traders who fixed the wholesale prices, unrelated to the cost of production. One noteworthy development in the decade of 'seventies has been the entry of NAFED (National Agricultural Co-operative Marketing Federation of India Ltd) and state poultry corporations/federations in marketing of eggs. In 1982, a National Egg Coordination Committee (NECC) was formed by some poultrymen to declare prices after monitoring the supply and demand position in different parts of the country.

All these developments have not had the desired impact in terms of providing either marketing infrastructure or ensuring remunerative prices to the producer, particularly the small farmer. Under the present conditions, it needs only a marginal increase in supplies of eggs to any particular market to cause a substantial drop there in the wholesale prices.

NEED FOR MARKETING BOARD

So, there is an urgent need for having an agency at the national level like a national poultry marketing board to undertake marketing operations ensuring prices based on the cost of production and to coordinate the marketing activity with various existing organizations in the public and private sector. Marketing of poultry products has been a problem even in the advanced countries like Australia, England and Canada where national autonomous boards have been set up to assist the producer.

The proposed board should be responsible for procurement, storage, distribution, processing and marketing of eggs and poultry products. In support of these activities, the board should undertake:

one, market intelligence relating to price, supply, demand and related conditions pertaining to egg and poultry products;

two, launch promotional campaigns for increasing the consumption of eggs and poultry products; and,

three, effectively intervene in the purchase, sale, storage and distribution of eggs and broilers.

The interests of both producers and consumers would be protected by the new agency On its board would be representatives from all segments of the industry, including state-level federations/corporations, representatives of producers and trade organizations.

The proposed board could enter into arrangements with the producer whereby it would provide certain services, and the producer in return would agree to subject himself to certain disciplines. This is the practice in Australia where the egg becomes the property of the Board the moment it is laid, and this organization has the necessary infrastructure to policing the operations.

The board can also make arrangements with various stores like Super Bazaar, canteens and cooperative stores to promote egg marketing. A time may come when the board may also enlist the cooperation of the hotel industry for marketing its products, or even set up its own centres/mobile vans in selected places on the lines of the Coffee Board and Tea Board.

The major thrust of its activities should concern organizational issues and production incentives. Such incentives should include a well-organized collection system and a guaranteed outlet so that the producer knows that his produce can be marketed quickly. Also, he needs an assured price so that he knows he will receive an acceptable return. It may also take up export of table eggs and dressed broiler.

The advisability of developing a frozen egg industry merits consideration. The egg is handled at many stages from the nest box to the consumer's plate, and the egg breakage is inevitable. Presently, no effort is made to collect the broken eggs. The egg frozen industry offers scope for their economic utilization. It will also help in getting a good price for broken eggs and will meet bulk consumer demands in suitable packs. Further, it would also need less storage space and save the bulk consumers like the hotel and confectionary industry from breaking eggs and disposing off the shell. This industry has received much attention in England.

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BROILERS: A DOMINANT FORCE

A major breakthrough in poultry has been the advent of broiler production in 1971 which is now a dominant force. The demand for broilers has grown phenomenally. Today, the number of commercial broilers have overtaken that of layers: against 70 million improved exotic layers, the annual production of broilers is 75 million. Presently, the country has breeding farms and hatcheries exclusively devoted to the production of commercial broiler stock, both in the private and public sector.

While the twenty-fold growth in the broiler production to 75 million is impressive, the forecast for its future expansion is fantastic: their output will double in the next five years.

Besides its wide acceptance, one major factor in the unprecedented popularity of poultry meat has been the rising price of mutton and chevon due to their limited increase in production. This has made chicken, once a luxury, now economically attractive to buy because its price is lower compared to mutton and chevon. Hence, the increasing demand for it.

Another new factor in the broiler development is the entry of chicken as item of fast food. Time is now ripe for the processing and marketing of cut-ups and value added broiler products to meet the requirements of the fast food industry. This development would give further fillip to broiler production. At least three ambitious chicken-based fast food projects are now in advanced stage of implementation, and their commissioning would see the demand for broilers zoom to new heights.

Already, there is a marked trend for integrated broiler projects where marketing will be the responsibility of the producer. Also, efforts are under way to set up broiler marketing cooperatives that would help small producers to benefit from the broiler boom.

This points to the need for setting up mechanical dressing plants in the production centres for hygienic and speedy dressing of broilers. The proposed board can set up such units and undertake to market dressed broilers on a large scale. Thus, small farmers would benefit from the economies of scale of production.

BROADER GENETIC BASE

The commercial poultry farming is based on exotic hybrid chicks, substantially replacing the desi fowl. An estimated 90 per cent of the commercial chicks, both layers and broilers, are supplied by the private breeding farms and hatcheries, some of which have foreign collaboration. The remainder come from public sector breeding farms. In the private sector, there are pure line farms and grand parent farms, the latter based on franchise arrangements.

The dominant share of the commercial market for layers and broiler is controlled by a few farms. Although no serious thought has been given to the suitability of different strain crosses to different ecologies or management systems and relative susceptibility to prevailing diseases, there is a need for looking into these aspects so that the farmers do not run into serious risks due to lack of adaptation and disease susceptibility.

Presently, there is a limited number of purelines in the country. Further, the pureline operations are by themselves an expensive business. To provide a broader genetic base for the development of commercial stocks, the Government may import larger number of high producing pure lines and create an agency which will have testing and multiplication facilities of these lines and make them available to commercial farms, like in case of crop genetic materials. This may also allow screening of the introduced strains for disease susceptibility.

The agency will also conduct extensive surveys of indigenous avian genetic resources and study their performance under intensive management systems as well as their possible utilization in crosses with exotic purelines in view of their superior ability to withstand tropical heat and resistance to diseases. The ingenuity of the commercial breeder will lie in the manner in which he develops strain crosses/synthetics of the available purelines which may be marketed as commercials. It is possible that the availability of a large number of commercials arriving from varied genetic base may reduce the chances of similar disease susceptibility in all of them and also the risk of major part of the poultry population being affected by a disease.

A mention may also be made here of exploring the possibilities and desirability of breeding dwarf female lines to cut down the cost of production of commercial chicks. Considerable research work on this aspect has been done in France.

To test the quality of stock constantly under field conditions, a system of franchise operations should be encouraged. Each breeding organization whether in the public or private sector should enter into an arrangement with a group of large commercial farmers under which the breeding organization will make available stock, feed, medicine and technical supervision and have its stock tested under the prevailing management and agro-climatic conditions.

Hybrid birds developed by the public sector breeding farms have proved their worth and their performance in the Random Sample Tests (RSTs), but have had no adequate placements on a larger scale on commercial farms. They are mainly multiplied in the State poultry farms. There is a need for marketing initiative to popularise these newly evolved hybrids among farmers all over the country with the help of central and state level poultry development corporations/federations.

Presently, research relating to poultry breeding is mainly confined to the Central Avian Research Institute (CARI), and the All India Coordinated Research Projects and agricultural universities, and to some extent at the Central and State poultry breeding farms, while industry is mainly relying on technical collaborative arrangements with their foreign breeding farms. So, there is a need to provide guidance to private breeders by public sector organizations. It is also imperative that these organizations should orient their research and training programmes towards solving the problems of the industry.

Further, every agricultural university should have facilities for training in different subjects related to poultry production at postgraduate level. It should take steps to identify and analyse gaps in the adoption and evaluation of new technology and find out what makes a procedure work in one situation and not in another. Each of the agricultural university should have a programme of "earn-while-you learn". Besides ensuring financial benefits to the poor and needy students, it would give them adequate practical experience and confidence. Also, a large volume of data will be available in due course for analysis.

EROSION OF PROFITABILITY

With the genetic improvement in birds, there is a need for increasing emphasis on the quality of feed to exploit their genetic potential to maximum advantage. One constraint to the consistent and assured quality of compounded feed is the variable quality of feed ingredients. To overcome it, fully equipped feed testing laboratories on commercial lines should be set up in pockets of poultry and a quality control programme enforced by bringing poultry feed and feed concentrates either under the Essential Commodities Act or unde a suitable new central legislation. The cost of testing could be recovered from the feed mixing units in case of the quality being lower than that advertised, and provision made for deterrent punishment.

With the rising prices of feed, the cost of production of eggs and broilers has increased considerably, while the price the producer is getting for his produce has not gone up proportionately. So, his profitability has largely been eroded, and profits have become marginal. One way to restore the viability of his farm operations is to get the economics of poultry production examined by the Agricultural Prices Commission periodically and to provide inputs/products at subsidised rates like in case of crop production which involves irrigation, fertilizers and pesticides. The annual subsidy on fertilisers alone is estimated at Rs 2,000 crores, and another Rs 1,600 crores on cereal and other food supplies to human population. Another is to allow exports of oilcakes, maize, deoiled rice bran and feed concentrates after meeting the internal needs.

This situation of decreasing profitability has been met by the farmer by increasing the unit size of the farm from 1,000 to 2,500-bird layer farm which now appears to be the minimum viable size of the unit. Consequently, there has been a marked concentration of birds in a few poultry production pockets. For example, the Namakkal-Salem belt in Tamil Nadu has had its layer population increased eightfold in the last eight years and stands at 40 lakhs. Similarly, the Hyderabad pocket has gone up from 12 to 50 lakhs, while in Ludhiana, there has been a three-fold growth and it stands at 36 lakhs.

The layer farm size and concentration of poultry production has given rise to a larger risk of diseases and calls for broadening the genetic base in developing disease-resistant commercial chicks and providing adequate diagnostic facilities and advisory service.

There is a growing awareness on the urgency for setting up of disease investigation/diagnostic laboratories in all the major pockets of poultry production for prompt identification of diseases and taking timely corrective measures. Along with the strengthening of the existing laboratories under the Central and State Departments of Animal Husbandry and Veterinary Services, the private sector needs to be encouraged for setting up of these facilities. Another step in this direction is to introduce licensing of hatcheries to ensure the propagation of disease-free stock which reaches the commercial farmer. The cooperation of agricultural universities and research institutes would help to initiate detailed studies to pinpoint the causes of variations in performances observed on the farm.

One of the major disease problems on the poultry farm remains to be coccidiosis. The available drugs against it are no longer fully effective due to development of resistance towards the causal organisms. So, there is an urgent need for allowing the import/manufacture within the country of new internationally reputed coccidiostats.

Another serious problem encountered in the field is the increasing use of growth promoters, containing vitamins, amino-acids and minerals for supplementing the feed, that bear no relationship to the stated formula on the label. They are priced very low. They do not come under the purview of the Drugs and Cosmetics Act.

One recent study based on research funded by the US Agency for International Development involving mineral research for grazing livestock in 25 tropical countries, presents the problems regarding mineral supplement evaluation for livestock thus:

> "Responsible firms that manufacture and sell high quality mineral supplements provide a valuable service to individual farmers. However, there are companies that are responsible for exaggerated claims in advertising and some that produce inferior products that are of little value or, worse, those likely to be of detriment to animal production. Analyses of mineral mixtures collected throughout Latin America have often shown little relationship between the amount of elements listed on the tag (label) and those actually found in the supplement. Investigations in Ecuador have illustrated the problem of unreliability of some companies that sell mineral supplements. Fifty products claiming to contain minerals were analysed in relation to stated guarantees. Approximately 10 per cent were reliable, with the majority having inaccurate information on mineral ingredient labels and other providing inadequate amounts or mineral imbalances. A known extreme fraudulent practice of one particular supplier was to buy a relatively good product from the market place, mix it with 20-30 per cent soil and then resell the resulting mixture under a new brand name."

UNEVEN PERFORMANCE OF SMALL UNITS

In the past decade, many schemes have initiated for promoting small scale poultry production for providing supplementary income to small and marginal farmers and landless labourers and improving their nutrition. These schemes, however, have not had the desired impact for a number of reasons, including:

(a) Lack of close coordination between the authorities and the small farmers;

(b) Delay in the supply of inputs like feed;

(c) Inadequate funding and bank credit;

(d) Virtual absence of marketing facilities; and,

(e) Difficulties in getting information from farmers as a guide to improve future programmes.

So, the overall performance has been uneven and results generally disappointing. Added to this is the fact that the large-scale intensive poultry production systems are being supported to the neglect of smaller rural units. Some of these frustrations were aired during the expert Consultations, convened by FAO in Rome in 1981, to review the prospects of poultry and rabbit production in rural areas of the developing countries.

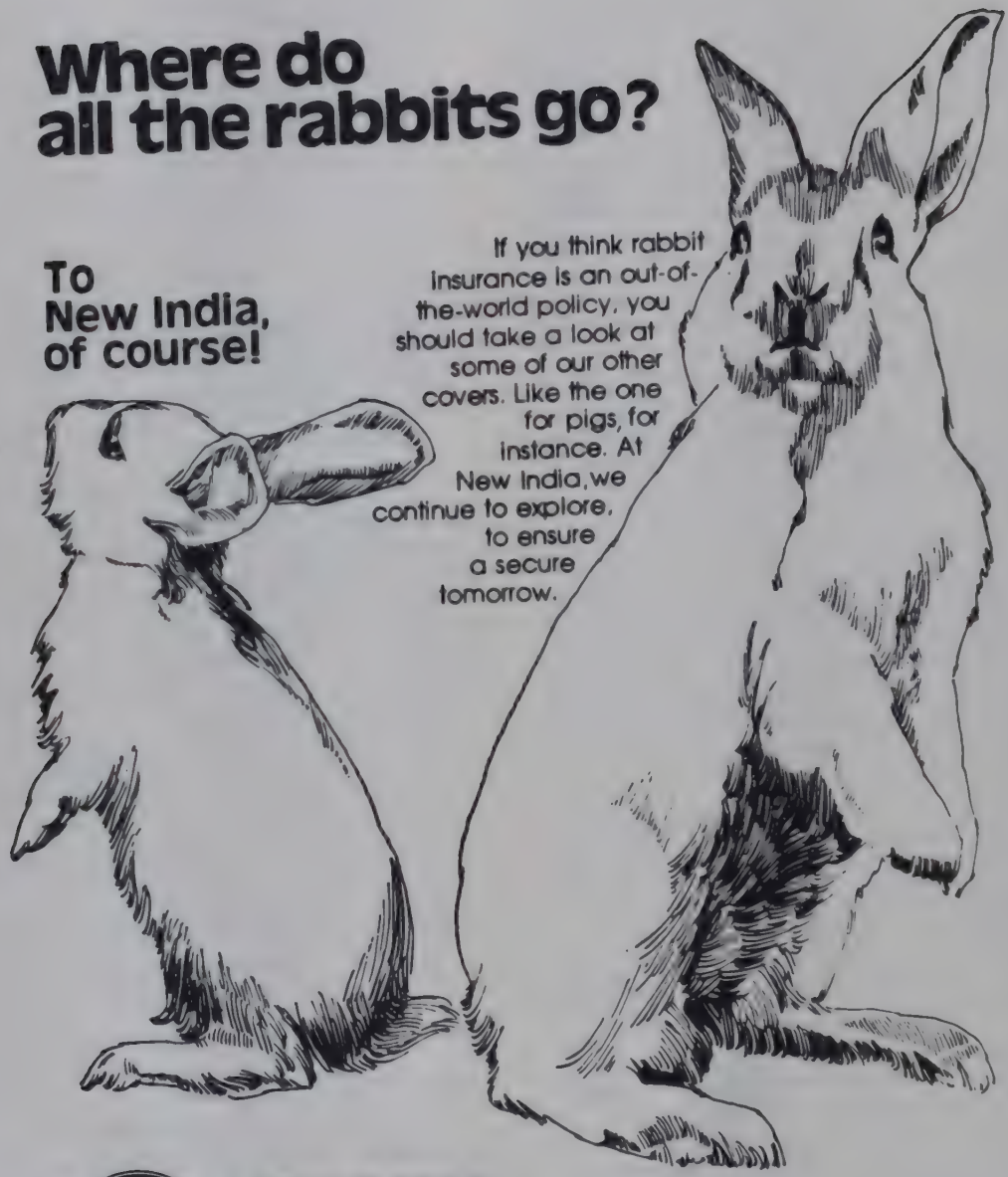
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In the last 15 years, the production of poultry meat and eggs has grown faster than that of any other major food in the developing countries. The rapid technological progress has resulted in a remarkable reduction in costs of their production and marketing.

Poultry Boom in Developing Countries

W. KROSTITZ
Meat & Dairy Specialist, Commodities & Trade Division, Food & Agriculture Organization, Rome

OVER the past one and a half decades the production of poultry meat and eggs has grown faster than that of any other major food in the developing countries. According to FAO statistics, in the livestock sector of the developing countries the output of bovine, sheep and goat meat and milk grew by hardly 3 per cent per year between the early 'seventies and the early 'eighties. Pork output rose by about 5 per cent. However, production of poultry meat and eggs increased by as much as 8.5 and 6 per cent respectively (Tables 1 and 2).

The growing demand for animal products, reflecting increase in population and incomes, accompanied by urbanization and "Westernization" of the diet, has been the main driving force behind this development. The favourably low prices for poultry meat and eggs relative to prices for other animal products have further stimulated consumption. Finally, the growth in poultry production must be seen in the context of food policies which, in many countries, place great emphasis on raising the levels of animal protein intake.

Boosting poultry production is considered to be one of the easiest and cheapest ways of meeting this objective. As a matter of fact, although in most developing countries, the average intake of protein, especially animal protein, is still comparatively low, the supply of protein originating from poultry meat and eggs has increased in most parts of the developing regions, as illustrated by Table 3.

TO SELF-SUFFICIENCY

To satisfy demand and to check the growth in imports which occurred in the 'seventies, most developing countries embarked on ambitious programmes to expand domestic poultry production — many of them without adequate local feed resources. In fact, except in a few densely populated areas, such as Singapore, where shortage of land and pollution problems have limited the scope for animal production, the question of whether to import poultry meat and eggs or to build up a domestic poultry industry on the basis of imported feed has generally been answered in favour of the building up of the poultry industry. In a similar situation, after the Second World War, several European countries, as well as Israel and Japan, adopted such policies.

In the developing regions, the Republic of Korea is now fully self-sufficient in poultry products on the basis of large feed imports and similar developments are taking place in other countries. Among them is Saudi Arabia, one of the world's biggest importers of poultry meat, where the degree of self-sufficiency in poultry meat has been increasing significantly, while egg production has at least temporarily exceeded domestic needs in recent years.

This approach reflects not only the desire to generate employment and to add to overall development but also take advantage of the differentials in the cost of freight and in prices. The long-distance transport per ton of poultry products is, of course, more expensive than that of the

TABLE 1. World production and consumption of meat and eggs.

	(average)	Production '000 tons	Net Trade '000 tons	Consumption Total '000 tons	Consumption Per Caput kg
Bovine meat					
Developing countries	1971-73	10,766	-1,088	9,678	3.5
	1980-82	13,292	-252	13,040	3.9
Developed countries	1971-73	27,576	1,064	28,640	26.2
	1980-82	31,421	79	31,500	26.7
World	1971-73	38,342	-	38,318	10.0
	1980-82	44,713	-	44,540	9.9
Sheepmeat and goatmeat					
Developing countries	1971-73	3,135	-33	3,168	1.1
	1980-82	4,080	-338	4,418	1.3
Developed countries	1971-73	3,855	-49	3,806	3.5
	1980-82	3,694	374	3,320	2.8
World	1971-73	6,990	-	6,974	1.8
	1980-82	7,774	-	7,738	1.7
Pigmeat					
Developing countries	1971-73	11,106	-140	10,966	4.0
	1980-82	17,609	-81	17,528	5.3
Developed countries	1971-73	28,439	-89	28,350	25.9
	1980-83	34,209	-379	33,830	28.7
World	1971-73	39,545	-	39,316	10.2
	1980-82	51,818	-	51,358	11.4
Poultry meat					
Developing countries	1971-73	3,757	93	3,850	1.4
	1980-82	7,865	539	8,404	2.5
Developed countries	1971-73	12,391	-131	12,260	11.2
	1980-82	18,934	-574	18,360	15.6
World	1971-73	16,148	-	16,110	4.2
	1980-82	26,799	-	26,764	5.9
Total meat*					
Developing countries	1971-73	30,237	-1,249	28,988	10.5
	1980-82	44,648	464	45,112	13.5
Developed countries	1971-73	73,822	942	74,764	68.3
	1980-82	89,946	-1,100	88,846	75.4
World	1971-73	1,04,059	-	1,03,752	27.0
	1980-82	1,34,594	-	1,33,958	29.6
Eggs					
Developing countries	1971-73	5,703	36	5,739	2.1
	1980-82	9,689	200	9,889	3.0
Developed countries	1971-73	15,602	-43	15,559	14.2
	1980-82	18,273	-218	18,055	15.3
World	1971-73	21,305	-	21,298	5.5
	1980-82	27,962	-	27,944	6.2

* Including minor meats. (-) Signifies net export.

quantities of feed required to produce a ton of meat or eggs. Furthermore, fresh products fetch a premium over the prices for products transported over long distances which, in the case of meat, are generally in frozen form. The advantage is even greater in areas where poultry is retailed live.

While in many developing countries, full self-sufficiency in poultry production will probably remain a long-term goal, purchases of poultry meat and eggs by developing countries reached a peak in the early 'eighties. Most recently imports, especially in the Middle East, have declined again, and with strong competition among exporters such as Brazil, EEC, USA and Hungary, exacerbated by oversupply in world beef and sheepmeat markets, prices in international poultry meat trade have been under downward pressure.

However, by building up local poultry industries, a considerable number of developing countries has not only become heavily dependent on imported feeds but also on foreign technology, management and other production and processing requisites, costing several billions of dollars a year. Moreover, the expansion of poultry production in the developing countries has largely occurred outside the traditional agricultural sector, and sometimes at the expense of it.

LARGE-SCALE OPERATIONS

Modelled on the patterns evolved in North America, Europe and Japan after the Second World War, many developing countries have established large-scale poultry production and processing enterprises, mainly in peri-urban areas. Such operations are highly automated and capital and energy intensive. They require a small but professionally skilled labour force, with management and production and processing requisites often coming from abroad. These poultry enterprises, which are generally imported on a turnkey basis, are vertically integrated companies which have their own parent stock farms, hatchery, feed mill, broiler or layer units and processing and packaging facilities. Some giant enterprises in the Middle East and Latin America keep millions of birds. In less urbanised countries, a large part of poultry meat production is produced under contract with individual growers. While the average size of operations varies widely, the general trend has been towards fewer and bigger contract farms as well as fewer and larger poultry units in general.

In many countries large-scale intensive meat and egg production enterprises were established directly by transnational companies or as joint ventures but, with the growth of the industry, domestically owned companies now account for the bulk of commercial output. Ownership patterns range from complete state control to private enterprises and, to a limited extent, farmers' cooperatives.

The proportion of intensive, commercial production to total poultry output is closely correlated with the general socio-economic development of individual countries. In the higher income and more urbanized parts of Latin America, North Africa and East Asia, the proportion is between 70 and 90 per cent and it has reached 90 to 100 per cent in some Middle East countries. However, even in a number of lower income countries in Asia and Africa, such as Pakistan, India, Sri Lanka, Zambia and Ghana, the proportion of output from intensive commercial production is between one-third and two-thirds of total poultry output.

Traditional production of poultry and other livestock is more important in Africa, south of the Sahara, and in a number of lower income Asian countries. In more remote areas especially, very little has so far been done to improve traditional poultry production. The performance of birds, which are usually kept in small flocks and which scavenge around the homestead being given household scraps and occasionally some grains, is low but hardly any cash outlay is involved. Most of the meat and egg output is consumed by the family with small, mostly seasonal surpluses being sold in village markets.

SEMI-COMMERCIAL SYSTEMS

Between these two extremes, various semi-commercial systems of medium-size family farms have developed in many developing countries. These farmers keep improved local breeds or crossbred stock, purchase part of the feed and sell most of their production. However, so far semi-commercial poultry production has been mainly limited to the more urbanised areas and has not been closely linked to rural development.

Moreover, independent semi-commercial poultry farming often seems to be a transitional stage with many of these farmers

TABLE 2. Growth rates in production & consumption of meat and egg, 1971-83.

per cent per year compound

	Bovine Meat	Sheepmeat & Goatmeat	Pigmeat	Poultry Meat	Total Meat	Eggs
Production						
World	1.7	1.2	3.0	5.9	2.9	3.1
Developing countries	2.5	2.9	5.2	8.5	4.4	6.2
of which: Middle East	3.0	2.5	2.7	9.4	3.9	8.2
Developed countries	1.4	-0.4	2.0	5.0	2.2	1.8
Consumption						
World	1.6	1.2	3.0	5.9	2.8	2.9
Developing countries	3.4	3.7	5.3	9.0	5.0	6.1
of which: Middle East	6.2	4.9	3.6	14.7	7.2	8.7
Developed countries	1.0	-1.4	1.9	4.7	1.9	1.6
Per caput consumption						
World	-0.2	-0.7	1.1	4.1	1.0	1.0
Developing countries	1.3	1.7	3.0	6.8	2.8	3.8
of which: Middle East	3.2	1.6	0.0	11.5	4.2	5.8
Developed countries	0.2	-2.2	1.1	3.9	1.0	0.7

TABLE 3. Role of poultry meat and eggs in total protein supplies.

availability per caput, in grammes per day

	(average)	Total Protein	Animal Protein	Meat Total	of which Poultry	Eggs	Milk	Fish
World	1971-73	67.4	22.5	10.4	1.5	1.6	6.9	3.6
	1980-82	70.5	23.9	11.3	2.1	1.8	7.0	3.8
Developing countries	1971-73	53.7	9.5	4.2	0.4	0.6	2.6	2.1
	1980-82	58.5	11.5	5.2	0.8	0.8	3.1	2.3
of which: Middle East	1971-73	75.2	15.6	7.3	0.9	0.8	6.5	0.9
	1980-82	87.3	21.3	10.2	2.6	1.3	8.3	1.4
Developed countries	1971-73	103.7	56.8	26.7	4.2	4.4	18.2	7.3
	1980-82	106.5	60.8	29.4	5.8	4.7	18.4	8.3

eventually being "integrated" into the operations of larger companies offering regular supplies of inputs and a secure outlet at guaranteed prices. The process of integration has so far been more pronounced in Latin America than in Africa and Asia, though in Asia the poultry industry in the Philippines and Thailand is highly integrated.

The decrease in the relative importance — and in some countries also in the absolute level of output — of small and medium-sized animal production, partly reflects the little attention paid by governments to the development, production and marketing by small farmers. Although in several countries of the Middle East, North Africa and Latin America, governments in the 'fifties and 'sixties embarked on rural poultry development, most of these programmes met with little success and with rapid urbanization, emphasis subsequently shifted to intensive production. Hitherto, government incentives to animal production have generally benefited intensive farming in peri-urban areas more than traditional production in the countryside.

RAPID TECHNOLOGICAL PROGRESS

The rapid technological progress in the modern poultry sector has resulted in a remarkable reduction in costs of production and marketing of poultry meat and eggs and their low retail prices relative to those of other animal products. While in many countries, especially in the early phase of intensification, there have been technical and managerial problems, with production and processing capacities often grossly under-utilized, the average productivity levels in developing countries with advanced poultry industries do not now differ much from those in developed market economy countries.

Overall, the modern sector probably now accounts for more than half of total poultry meat and egg output in the developing countries. Of the total investment into modern poultry production and processing, representing approximately US$ 30 billion at today's prices, a considerable part has been in foreign exchange. Similarly, a big part of the industry's recurrent expenditure requires foreign exchange, the largest item being feed. Over the past decade, the developing countries' gross imports of coarse grains and other concentrate feeds have increased nearly three times to between 35 and 40 million tons in recent years representing a c i f value of around US$ 6 billion. Most of this goes into poultry production though intensive pig and milk production has also absorbed growing amounts of imported concentrate feeds.

Foreign management, spare parts, packaging material, medicines and, in non-oil producing countries, fuel, are other important components of the import bill. Finally, though most poultry species originally came from the tropics and subtropics, the developing countries have in recent years bought increasing numbers of breeding and commercial chicks from the developed countries of the northern hemisphere. The EEC countries as the main suppliers have more than doubled their exports of chicks to developing countries during the past five years, with sales now reaching some 150 million chicks annually.

ADVERSE EFFECTS

The adverse effects of the recent world economic recession on national economies and foreign exchange earnings have substantially changed the prospects for future development of the poultry industry in many developing countries. If economic recovery gains momentum this might enable the newly industrializing countries in Asia as well as a number of petroleum exporting developing countries, especially in the Middle East and North Africa, to continue to expand their poultry industries along the patterns of the 'seventies. However, except in East Asia, growth rates will probably be lower than in the past decade.

It appears that, in an increasing number of developing countries, acute shortage of capital, widespread unemployment and under-nutrition, excessive urbanization on the one hand and a growing number of small farmers and landless labourers on the other have been causing a change of policies, with more emphasis being placed on rural livestock development, including the poultry sector.

A slowdown in poultry development in developing countries will also of course, affect purchases of production requisites from developed countries. Not only are imports of feeds into developing countries expected to grow less rapidly in the future but there is also a tendency towards increased local manufacture of production

requisites and equipment in countries with relatively advanced industries, such as the Republic of Korea, China, India and Brazil.

Among the developing countries which have been relatively successful in developing rural and small-scale commercial poultry production, at least in parts of their countries, are Pakistan, Turkey, India, Bangladesh, China, Mexico, Kenya, Malawi and Egypt. In addition, Sri Lanka, Dominican Republic, Philippines, Malaysia, Thailand and Burma have recently prepared projects for small-holder poultry development. Indonesia's new rural poultry development programme is accompanied by measures to curb large-scale production of broilers and eggs.

Partly with international assistance, government agencies in these countries are aiming to raise the productivity of rural poultry by the provision of more productive birds and other inputs and improved disease control and training, combined with better credit and marketing facilities, often on a cooperative basis.

REORIENTATION OF POLICIES NEEDED

A change in poultry development policies may be difficult and slow to achieve, but in the long run would probably improve rural employment, incomes and nutrition and help to intensify and diversify traditional agriculture and to increase self-reliance. However, a reorientation of livestock policies of developing countries within a more coherent policy of the livestock, feeds and food cereals sectors requires a strengthening of production support services for small-holders in the rural areas. It should include extension and disease control, improved access of small-holders to institutional credit, regular supplies of certain inputs as well as the establishment of secure outlets for surpluses produced in more remote areas.

At the same time price and trade policies which in many countries favour urban consumers, as well as certain incentives which tend to encourage intensive livestock production in peri-urban areas based on external inputs, need to be reviewed so as to make production remunerative to small producers in rural areas, also.

Poultry development can be a suitable instrument for improving the living conditions of rural small-holders, but it will inevitably raise the requirements of concentrate feeds. Hence, countries which are short of grains and other concentrates, or the foreign exchange to buy them, but have more ample supplies of roughages may have to place greater emphasis on species that depend less on concentrates, such as ruminants or rabbits.

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THE COMING DECADE IN POULTRY

(Continued from page 37)

Does large-scale intensive production pose a threat to poultry development programmes for the benefit of weaker sections, based on small units? In the developing countries like India, the commercial poultry production can co-exist with small, rural poultry units, because the large-scale sector caters to the requirements of the urban population while the production from the small units is mainly confined to the rural consumers. Further, if the small units are linked for producing inputs and taking up marketing, these could as well compete with larger units. The concept of poultry estates especially for educated unemployed in rural areas needs to be given serious trial.

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Poultry production is growing more rapidly in Asia, South America and Africa than in Europe or North America. In all areas, poultry meat production is expanding more rapidly than egg output.

Developing Countries Grow in Importance

D.H. CUMMINGS
Secretary-General,
International Egg Commission

&

TERRY EVANS
Editor,
Poultry International

POULTRY industries in the developing countries and the Asian centrally-planned economies are increasingly expanding their share of world production.

Thus, while, in 1984, the developed countries plus the centrally-planned economies of Eastern Europe and the USSR, accounted for 63 per cent of world egg production and 68 per cent of poultrymeat output, the corresponding figures in the mid-1970's were 71 per cent and 75 per cent respectively.

A regional analysis reveals that:

- In all areas,poultrymeat production is expanding more rapidly than egg output.
- Production is growing more rapidly in Asia, South America and Africa than in Europe or North America.
- Even in these regions where the overall growth rate is unexciting, it is possible to find individual industries recording rapid expansion e.g. Mexico in North Central America or Yugoslavia in Europe.

When assessing the likely future growth of any market it is essential to take account of (a) the size of the human population and (b) the ability of the people to pay for eggs and poultrymeat.

With few exceptions, the relatively rich developing markets have small populations while those developing countries with "many mouths to feed", more often than not, have limited funds and hence, investment in poultry production is on a much smaller scale than that seen for example in the Middle East during the past decade.

PRODUCTION CONCENTRATED

Although eggs and table chickens are produced in virtually all the 200 or so countries in the world, over 90 per cent of egg output comes from the largest 40 producing nations. Indeed, for broilers, the leading 30 countries represented 90 per cent of world production.

FEWER BUT LARGER

Regardless of industry size, eventually the bulk of output (eggs, broilers or turkeys) becomes concentrated in relatively few hands. Thus producer buying power is becoming more concentrated and more powerful with time. This is particulary evident in the poultrymeat sector where vertical integration is most common, resulting in the industry being dominated by a small number of companies. With few exceptions the largest 20 companies in any country will control the bulk of broiler or turkey production.

Regarding egg industries, in most countries, the number of commercial units owning 10,000 or more layers is less than 1,000, and these account for at least 50 per cent, but in many instances in excess of 70 per cent, of the national flock.

While the number of 10,000+ bird units is increasing in developing industries this is being more than offset by a contraction in the number of such units in developed industries such that the total number of

Fastest Growing Livestock Industry

On a worldwide basis, poultry production is the fastest growing sector of the livestock industry.

- World egg production currently amounts to 30 million tons a year and is growing at an annual rate of around 2 per cent. So, by 1990, the total will be close to 34 million tons, while by the year 2,000 it will exceed 40 million tons.
- World poultrymeat output also totals about 30 million tons, but the annual growth rate is higher than that for eggs, at about 4 per cent. The 1990 total should be around 38 million tons, at which point, it will represent about 25 per cent of total meat production. And some forecasters consider that it could account for 30 per cent of all meats by that date. By the year 2,000 output will be over 50 million tons.
- World broilermeat production stands at approximately 20 million tons. This is the most rapidly growing sector (about 5 per cent a year) with output reaching between 27 and 28 million tons by 1990, at which time it will represent almost 18 per cent of total meat production. This compares with 14 per cent now, 9 per cent in the early 1970's and only 5 per cent at the start of the 'sixties. Looking to the year 2,000 output should amount to atleast 43 million tons.

The balance for 1984 of approximately 10.2 million tons a year mainly comprises turkeymeat, henmeat, duckmeat, goosemeat and Guinea fowl.

10,000+ bird flocks appears to be declining by around 10 per cent every five years. Already in developed industries like the Netherlands and the UK, this flock-size category accounts for 80 per cent of all layers while even in developing industries such as Korea and Pakistan, 10,000+ flocks account for about 40 per cent of the flock and will almost certainly have passed the 50 per cent mark by 1990.

By 1990 there will be significantly fewer 10,000+ bird flocks than now, as the industry becomes even more concentrated with fewer major decision makers who are becoming increasingly important as they account for a larger share of a growing industry.

WORLD TRADE

(a) Broiler Exports: World trade in broilermeat in 1984 amounted to about 1.2 million tons — down on a 'peak' of almost 1.5 million tons recorded in 1981 and approximating to around 6 per cent of world production.

It is clear from the export data (Table 9) that the trade is dominated by a handful of countries — France, Brazil, the Netherlands, the USA and Hungary. It may be noted that:

- Brazil has come from nowhere (exporting less than 40,000 tonnes/year during the latter half of the 'seventies) to become the second largest broiler exporter in the world, in just five years, shipping some 300,000 tonnes/year, mainly to the Middle East. However, shipments fell in 1984 to around 270,000 tonnes and could contract further in 1985!
- Clearly, the French have been increasingly active, expanding exports from 208,000 tonnes in 1980 to a record 344,000 tonnes in 1983. But, as with Brazil, 1984 saw a reversal of this trend, which could be continued in 1985!
- Exports from the Netherlands have trended downwards since 1981.
- The USA, once the world's leading exporter, has seen its exports slump dramatically from well over 300,000 tonnes in 1981 to an estimate of only 175,000 tonnes in 1984 and the short-term outlook is for a further decline in 1985.

Looking to future world broiler exports, we envisage the following:

(1) It is likely that France's long-term ability to compete on the world market will deteriorate — especially if export restitution payments are not sustained — though it is possible that a shortfall may be made good by a direct subsidy from the French government.

(2) Brazil's competitive position will be sustained — feed and labour costs are lower than in the USA.

(3) US exporters remain optimistic about the future, feeling that they will be able to capitalise on any cutback in

TABLE 4. Regional egg production.

'000 tons

	1974-76	1982	1983	1984	% Change 84:74-76
Africa	714	1,056	1,123	1,148	+ 61
North Central America	4,843	5,454	5,412	5,456	+ 13
South America	1,076	1,674	1,667	1,671	+ 55
Asia	6,007	8,464	8,883	9,321	+ 55
Europe	6,530	7,374	7,329	7,277	+ 11
USSR	3,096	4,000	4,127	4,242	+ 37
WORLD	22,525	28,288	28,823	29,380	+ 30

TABLE 5. Regional poultrymeat production.

'000 tons

	1974-76	1982	1983	1984	% Change 84:74-76
Africa	830	1,382	1,476	1,533	+ 85
North Central America	6,008	8,414	8,570	8,740	+ 46
South America	1,308	2,886	2,937	2,895	+ 121
Asia	3,127	5,310	5,681	5,996	+ 92
Europe	5,604	7,451	7,330	7,548	+ 35
USSR	1,453	2,425	2,596	2,675	+ 84
WORLD	18,558	28,202	28,949	29,748	+ 60

TABLE 6. Top ten egg and broiler producing nations.

'000 tons

	Eggs		Broilers	
1.	USSR	4,242	USA	5,899
2.	USA	4,035	USSR	1,500
3.	China	3,643	Brazil	1,360
4.	Japan	2,117	Japan	1,220
5.	France	890	France	780
6.	India	820	Spain	735
7.	Brazil	810	UK	625
8.	Germany FR	780	Italy	560
9.	Mexico	729	China	500
10.	UK	710	Mexico	455

TABLE 7. Leading egg producers -- 1984.

Country	Output ('000 tons)	% Change 84:74-76
1. USSR	4,242	+ 25
2. USA	4,035	+ 5
3. China, mainland	3,643	+ 71
4. Japan	2,117	+ 16
5. France	890	+ 18
6. India	820	+ 77
7. Brazil	810	+ 65
8. Germany FR	780	- 11
9. Mexico	729	+ 72
10. UK	710	- 11
11. Netherlands	672	+ 137
12. Spain	660	+ 19
13. Italy	640	- 4
14. Poland	428	+ 4
15. Romania	370	+ 47
16. Germany DR	350	+ 17
17. Canada	336	+ 7
18. Korea Republic	295	+ 70
19. Argentina	280	+ 40
20. Czechoslovakia	270	+ 21
21. Turkey	260	+ 90
22. Taiwan	250	+ 300
23. Indonesia	238	+ 255
24. Nigeria	235	+ 104
25. Yugoslavia	230	+ 24
26. Philippines	220	+ 33
27. Hungary	210	- 2
28. Iran	200	+ 13
29. Australia	197	+ 2
30. Belgium/Luxemburg	188	- 27
31. South Africa	180	+ 25
32. Colombia	163	+ 52
33. Venezuela	159	+ 71
34. Pakistan	153	+ 248
35. Bulgaria	149	+ 49
36. Egypt	132	+ 91
37. Greece	126	+ 16
38. Thailand	124	+ 49
39. Sweden	117	+ 9
40. Korea DPR	115	+ 62

TOTAL: 26,973
or
92 per cent
of
world output.

(As a rough guide, 6.5 million layers produce 100,000 tons of eggs/year.)

TABLE 8. Leading broiler producers -- 1984.

Country	Output ('000 tons)
1. USA	5,899
2. USSR	1,500
3. Brazil	1,360
4. Japan	1,220
5. France	780
6. Spain	735
7. UK	625
8. Italy	560
9. China, mainland	500
10. Mexico	455
11. Canada	425
12. South Africa	395
13. Romania	350
14. Netherlands	342
15. Venezuela	298
16. Australia	266
17. Taiwan	250
18. Hungary	250
19. Yugoslavia	230
20. Argentina	220
21. Germany DR	215
22. Iraq	153
23. Czechoslovakia	150
24. Saudi Arabia	135
25. Portugal	131
26. Israel	130
27. Greece	127
28. Germany DR	125
29. Poland	120
30. Belgium/Luxemburg	120

TOTAL: 18,066
or
90 per cent
of
world output.

(As a rough guide 60 million birds produce 100,000 tons of meat.)

French exports and that they are better placed to sell to new developing markets in the Caribbean and the Far East. Another point to consider here is that US poultrymen are, at this moment, campaigning the US legislative for financial aid to help them re-establish their position in the world poultrymeat and egg markets claiming that the US should have at least 40 per cent of world poultrymeat exports and 25 per cent of world egg exports. One last point on the US position -- the Americans believe that, should the export market move towards higher value products, parts or further-processed items -- they are better placed to meet such a demand than the Brazilians or the French.

(4) New major exporting countries will emerge, such as Thailand, which is currently selling some 25,000 tonnes/year to Far East markets. We could see some new entrants in the field such as Argentina, who might decide to follow Brazil in turning their maize and soya into poultrymeat exports. Also, it is generally considered that both Hungary and Yugoslavia will expand their participation in the broiler export business.

(5) New markets are being discovered. During the past couple of years Belgian broiler exporters have expanded sales to several African countries -- though admittedly the quantities involved have been relatively small when compared with the trade in the Middle East.

(6) On balance, in the long-term, the quantity of broilers being exported will remain substantial, partly because there will always be some product on offer at lower prices than those ruling in some domestic markets, and partly because good marketeers in one country will successfully capitalise on opportunities not grasped elsewhere by domestic sellers. However, as it seems likely that a growth in domestic production in the major importing countries will lower their requirement for imports, then I foresee total exports trending downwards, fluctuating between 1.0 and 1.25 million tons, with increased competition for existing and new markets.

(b) Broiler Imports: The lower half of Table 9 shows the trend in broiler imports. It may be noted that:

- As with exports, the bulk of the trade involves just a few countries.
- The USSR is the leading importer. Though this buyer normally looks to East Europe for supplies and especially Hungary, she has frequently bought from EEC countries and is already trading with Brazil. Of interest here is that France's 'Red Millionaire', Jean Baptiste Doumeng (renowned for selling low-priced EEC commodities to the USSR) is now part owner of Tilly, one of France's leading broiler exporters which could result in France selling more broilers to the USSR in the near future.
- The major trading area is the Middle East, with Saudi Arabia, Iraq and North Yemen as leading buyers. These countries will become less dependant upon imports in the long-run and, indeed, some may become exporters themselves, selling to neighbouring Arab countries.
- Some export markets such as Japan will grow while new ones will appear, e.g. Korea will become an importer of broilers in 1986.

(c) Table Egg Exports: World trade in table eggs at around 12,000 million/year represents around 2.5 per cent of world production. Much of this trade is between EEC member countries and hence, strictly speaking, ought not to be considered as exports. Also, sales between Finland and the USSR are under a special agreement and do not reflect what would normally be considered genuine exports. As such, I consider the 'real' export trade in table eggs to be between 5,000-6,000 million eggs/year the bulk of which is sold to Middle East/North African countries. As this business will greatly depend on the growth of domestic production in these areas and other factors such as oil revenues and the Iran/Iraq war, I do not consider table egg exports as a growth area, the volume traded fluctuating annually depending mainly on the aforementioned conditions in the Middle East/North Africa. The 'world' picture of trade in table eggs is presented in Table 10. The top half of this table looks at the trend in exports. It may be noted that:

- EEC countries dominate the export scene, accounting for more than 60 per cent of my estimated 'world' total.
- The leading exporting country — the

TABLE 9. World trade in brcilermeat.

'000 tons

	1980	1981	1982	1983	1984*	1985+
			EXPORTS			
France	208	295	306	344	255	250
Brazil	169	294	302	299	270	240
Netherlands	183	212	194	183	173	170
USA	257	326	227	196	175	160
Hungary	95	110	132	145	110	130
Denmark	48	54	59	57	52	54
Yugoslavia	3	7	11	16	17	23
Belgium/Luxemburg	8	8	14	15	17	26
Germany FR	33	41	35	16	14	12
Total above:	1,004	1,347	1,280	1,271	1,083	1,065
			IMPORTS			
USSR	110	169	175	200	220	240
• Saudi Arabia	193	182	208	235	200	190
Germany FR	154	150	159	143	150	148
• Iraq	80	175	168	140	140	140
Japan	57	98	103	101	100	105
Egypt	50	110	39	51	90	90
Hong Kong	46	61	61	60	64	67
• North Yemen	25	34	49	40	45	45
United Kingdom	18	17	23	45	50	45
Canada	20	23	26	30	34	34
• Kuwait	25	24	28	30	30	28
Total above:	778	1,043	1,039	1,075	1,123	1,132
'World' Trade	1,030	1,460	1,380	1,350	1,195	1,120

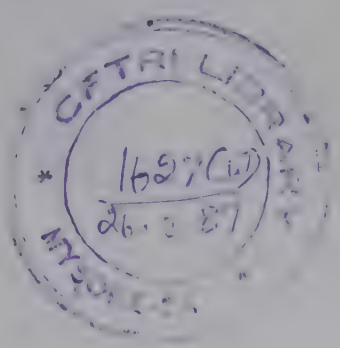
* Estimated
\+ Forecast
• Poultrymeat, mainly broilers.

TABLE 10.World trade in table eggs.

millions

	1980	1981	1982	1983	1984*
			EXPORTS		
Netherlands	4,968	5,298	5,882	6,020	6,290
USA	950	1,625	776	180	143
France	485	689	912	882	554
Belgium/Luxemburg	912	790	732	638	604
Germany FR	368	389	524	553	608
Finland	389	437	455	487	500
Spain	557	325	468	460	450
UK	469	417	475	363	242
Total above:	9,098	9,970	10,224	9,583	9,391
Table East Europe (est):	1,600	2,300	2,100	2,300	2,600
Grand total of above:	10,698	12,270	12,324	11,883	11,991
			IMPORTS		
West Germany	4,588	4,756	4,943	4,845	4,200
Algeria	825	836	1,185	1,200	600
Switzerland	422	455	488	468	491
Iran	380	690	250	450	n.a
Iraq	320	520	625	400	n.a
Italy	418	163	384	455	550
UK	399	344	98	385	445
Saudi Arabia	275	245	270	150	n.a
United Arab Emirates	330	120	210	150	n.a
Total above:	7,957	8,129	8,453	8,503	n.a
'World' Trade	12,600	13,300	13,900	13,400	13,500

*Estimated.
n.a: not available



Netherlands — dominates both the EEC and world picture accounting for around 60 per cent of total EEC 'exports' and over 40 per cent of the 'world' total.

- Finland's exports are under an agreement with the USSR.
- Spain is among the 'leading' exporters, which will soon make life difficult in the EEC.

(d) Table Egg Imports: The import side of the world egg trade balance sheet is presented in the lower half of Table 10. It may be noted that:

- West Germany is easily the leading importer accounting for about 35 per cent of my 'world' total.
- The Middle East/North Africa is the key importing area, but it is of interest to see that Saudi Arabia and the United Arab Emirates have decreased their purchases since 1982, this being a direct result of these countries having expanded domestic production.
- The growing importance of Algeria, althcugh this market appears to have received a setback last year.
- That Switzerland is a stable, steady but no-growth market.
- Surprisingly, Italy, a difficult country to which to export, has bought increasing quantities of table eggs over the past few years.

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Opportunities in Broiler Marketing

SHAIK IMAM
Chairman,
Kasila Farms Private Limited, Hyderabad

THERE is a paradox in developing countries of shortages coexisting with marketing problems. The Indian poultry industry is no exception. In order to understand the problem in depth, it is necessary to study the evolution and the present status of the poultry industry.

Organized poultry farming is almost 25 years old in India and the broiler part of it is only 15 years old. However, the rate of growth of broiler production has been greater than that of layers. Broilers are expected to maintain the lead during the next decade also as projected in the graph.

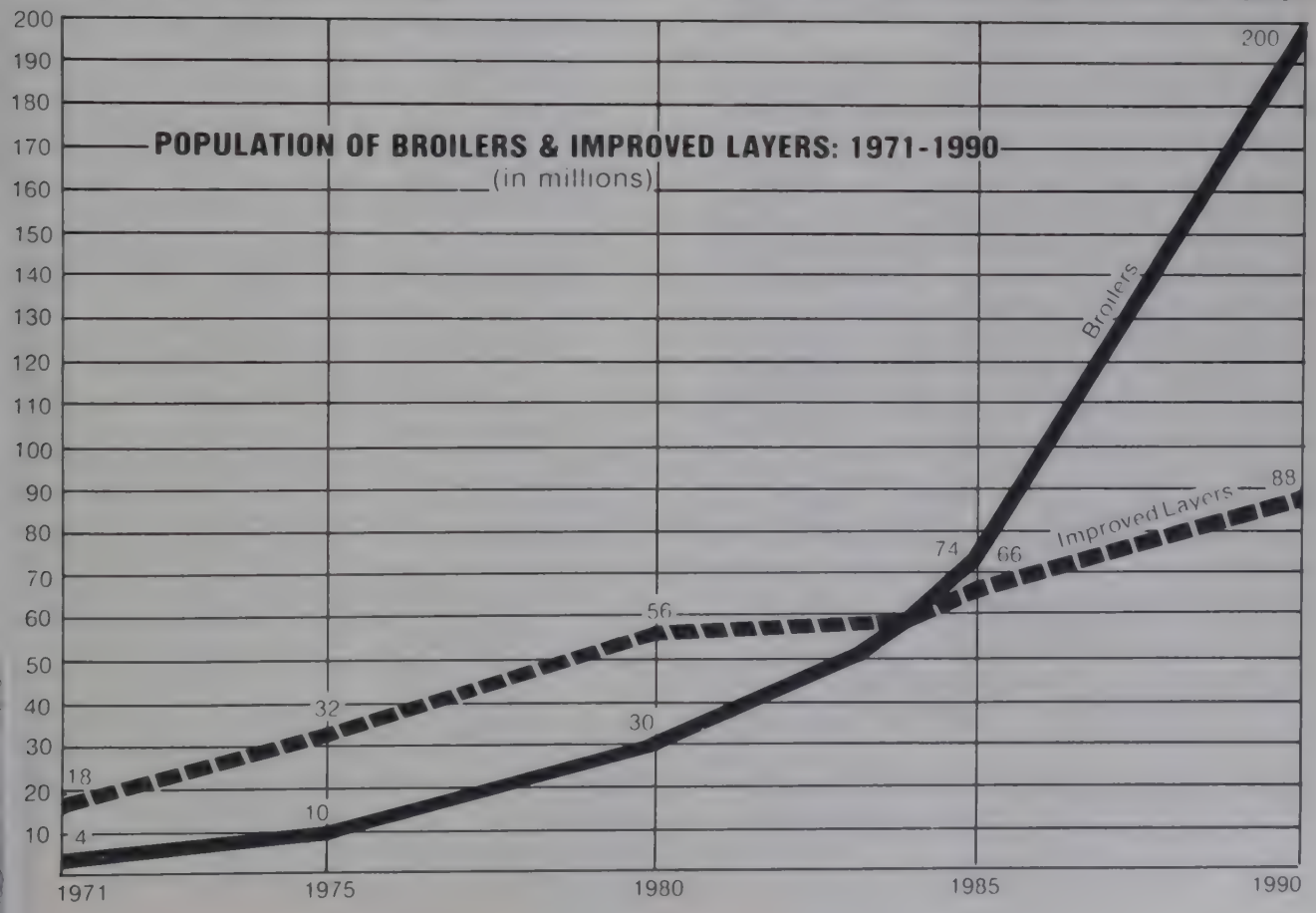


TABLE: 11. Share of broilers in the poultry meat sector.

Year	Total Poultry Meat (tons)	Culls & Cockerels (tons)	Culls & Cockerels % of Total Poultry Meat	Broilers (tons)	Broilers % of Total Poultry Meat
1981	140,000	105,000	75	35,000	25
1982	142,000	102,000	72	40,000	28
1983	157,000	105,000	67	52,000	33
1984	172,000	112,000	65	60,000	35
1985	186,000	113,000	61	73,000	39

Within the poultry meat sector itself, the share of broilers is gaining ground against culls and cockerels as seen from Table 11.

Considering broilers vis-a-vis the other traditional meats like mutton, beef, sea-food and pork and ham, the picture seems to be even more favourable. Broiler meat is also the most "acceptable" to the Indian household. Certain other features of these traditional meat which would work to the advantage of the broiler industry are described below.

Muttons: Although mutton has the strongest hold on the non-vegetarians, its spiralling prices and shrinking supplies are limiting its share in the market. One hectare of grazing land is needed for every five sheep or lambs. Land ceiling restrictions and high prices make sheep raising unremunerative. Hence, the conventional grazing areas are steadily depleting. Industrialisation and more remunerative agriculture have imposed further pressure on land resources. This trend is creating a vacuum in the market and augurs well for the development of alternates.

Beef: Actually, the so called beef sold in India is not beef but meat of old cattle and buffaloes. This is tough and neither tasty nor hygienic. Strong religious and cultural reservations place it in the undesirable category. Besides, it has the same problem of pressure on land as in the case of lamb. Therefore, the market for this type of meat is also not likely to grow at all.

Fish & Sea-Foods: Apart from very localized preferences, as in coastal towns and cities, this type of meat has not been popular in the general market. Its share will therefore continue to be limited.

Pork & Ham: Pig farming is almost non-existent in India and is unlikely to grow for reasons of tradition and religious reservations.

It is evident therefore that the market for broiler has the inherent potential of growth both within the traditional poultry meat sector as well as in competition with other non-poultry meats.

In 1984, the production of broilers was of the order of 60 million, mostly concentrated in the following regions:

Maharashtra	12.0 million
Punjab	9.2 million
Andhra Pradesh	9.2 million
Delhi/Gurgaon	5.6 million
Karnataka	4.0 million
Other Areas	20.0 million
Total	60.0 million

It is estimated that only about a quarter of the above production is sold after dressing, mainly in a few metropolitan markets. Table 12 gives statistics for four such markets.

Table 12. Percentages of live and dressed broilers sold in four metropolitan markets.

	% Dressed Broiler Sold	% of live sales
Bombay	70	30
Delhi	60	40
Hyderabad	25	75
Bangalore	25	75

The above situation is obviously the result of the near total absence of integration in the industry. None of the stages, like breeding, hatcheries, commercial farming and marketing are planned as complementary facilities aimed at exploiting the fullest potential of the Indian food market, on the one hand, and of the broiler industry on the other. After all, unlike many other food-farming activities, broiler farming lends itself admirably to management technique just as any modern industry.

Organizationally as well as in terms of the technical inputs of breeding, production, processing and marketing, the broiler business can be endowed with the same kind of managerial skills that are normally associated with the industrial enterprises. The fact that it has the potential of becoming one of the few full-fledged industries in the food sector must be recognized now and initiative taken for vertical integration from farming through processing to distribution and sales. The objective should not only be integration per se, but to create and convey to the consumer of broiler meat the image of a standardized, dependable and sophisticated product of an industrial enterprise, rather than from an unorganized sector like cattle and sheep rearing.

The weakest link in the broiler business today is marketing. As mentioned before, almost all retail sales are on the basis of live birds which, both before and after slaughter, are a highly perishable commodity. Again, today, there is just one operational unit in the country which is truly integrated from commercial hatchery down to retailing the dressed chicken, feed mixing, processing and cold storage included.

In our search for initiatives and strategies of marketing for the development of Indian broiler industry, we may advantageously study the American scene relating to the evolution of broiler marketing. The US broiler industry is 50 years old, starting with whole-dressed chicken which stayed in the market till the mid 'sixties. The Europeans took the lead in cut-ups which was adopted very fast by the Americans. The 'seventies saw a sharp rise in beef prices while the broiler remained almost stagnant which attracted the attention of the housewife and the processors as well. Beginning of the 'eighties was the beginning of a new era: further processed, deboned and ready-to-cook chicken which accounted for a share from 10 per cent in the late 'seventies to above 65 per cent in the mid 'eighties.

Back home, the development seems to be on slightly different lines. From live bird sale which is predominant today, the bulk of the sales within the next two years will be cut-ups virtually by-passing the stage of dressed whole chicken.

Within the constraints of the Indian consumer behaviour, which is at once conservative and unpredictable, fastidious and practical, it should be possible to predict a strong move toward integration at the marketing-end of the industry in the next five-ten years. This would take the shape of both dressed and frozen whole chicken and cut-ups, as well as ready to eat cook "fast food" products. These trends will be both the cause and effect of a restructuring of the broiler industry whereby large-scale integrated operations will force the small farmers out of business unless they force themselves into production-cooperatives having a joint marketing wing to process, store and move the end-product to the retail store.

Such integrated operations, whether in the corporate or ccoperative sector, would complement the new trends in the urban market--the fast food trend. There is already a variety of "fast food" in our cities and towns from sandwiches to idlidosa, and from chanra chaat to bhel puri. Chicken as the basic ingredient is yet to enter this market and its importance will soon be recognized, influenced not only by the success of the American Kentucky fried chicken, but also by the fact that the once famous McDonald Hamburger is today second only to his own cousin, McNuggets, which is a small chunk of broiler chicken, seasoned, breaded and deep fried. The advent of meat based fast food in India is round the corner, and chicken being the universally acceptable meat, the opportunity to flood the cities with broiler based products from an integrated industry should not be missed. It is understood that three leading non-poultry companies are already preparing to launch their chicken-based snacks into the fast food market next year.

PROBLEMS OF BROILER MARKETING

Compared to the egg producing farmer, the broiler farmer is dealing with a more

perishable and critical product, so far as marketing is concerned. For him the time has already come to integrate or perish. It is another matter that, depending on the size of his business, he may or may not develop his own integrated operation. But the problems of marketing broilers are essentially the same for small or large farmers.

Both the 'haves' and 'have-nots' in India are unwilling to purchase a whole chicken at a time. The haves would prefer paying a premium for prime portions, while the have-nots would only be too happy to pick up the rest at a bargain price. This necessarily requires dressing and packaging facilities which are virtually non-existent in the country today.

Another problem is transportation. Dressed broilers need to be transported in refrigerated vehicles from places of production to places of consumption. Such a facility has not yet developed in any part of the country.

Then comes the storage problem. The production areas must have large frozen storage facilities:

(a) to stabilise prices and prevent unwarranted fluctuations;
(b) to overcome temporary or seasonal surpluses and shortages; and,
(c) to prevent the middle-man from artificially creating shortages/surpluses and then taking undue advantage of the situation.

The broiler industry stands to gain from solutions to these problems in two ways. While they will create confidence and therefore promote a healthy growth of the industry, they will also go a long way in safeguarding the interest of consumers.

Coming next to the quantification of the growth potential of this industry is the per capita consumption of broilers. Table 13 would show how much ground remains to be covered in India in this respect.

Indonesia is particularly cited here because it is a high density population country and less developed than India. Yet, their per capita consumption is about 3½ times that of India. One chain of restaurants in the USA consumes 3 million broilers a week which means 2½ times the total consumption of India.

Table 13. Per capita consumption of broilers in selected countries.

Country	Per capita consumption
Gulf	32 broilers/person
USA	26 broilers/person
Indonesia	1 broiler/3 person
India	1 broiler/11 person

One Arab eats as many broilers as 350 Indians do in a whole year.

A frequent explanation given for the above situation is that the per capita income in India is so low that people cannot afford a luxury like chicken. This is perhaps not a valid argument as seen from the fact that the sale of soft drinks in India amounts to Rs 370 crores annually while the total sale of broilers is around Rs 120 crores. The excise and sales tax collected on the sale of Indian Manufactured Foreign Liquor (IMFL) is Rs 800 crores and the same low income population pays (on excise and sales tax) for country liquor Rs 2,400 crores a year.

Practical and achievable targets for broilers should be 100 millions for 1986 (against 74 million projected for 1985) and 200 millions for 1990. The industry has the capability to produce these numbers and the consumer has the physical need and financial resources to consume it all. But do we realise that our main problem is integration of production with marketing?

And if we wish to look ahead into the 21st century, could we not at least plan for one broiler per Indian per year which means about a billion chicken in the year 2000 AD?

Information Databank

You will be surprised at the many, varied ways in which this *Yearbook* could be useful to you. For example, the standard guidelines for the appraisal of schemes as well as marketing potentials in different areas published in the *Yearbook*. Also, classified lists of livestock, feed, equipment and similar input suppliers to whom banks prefer to disburse directly the amount due to them on behalf of loanees. These and other features would make this reference compendium useful to your Technical Officers. Additional copies of the *Yearbook* can be had directly from the publishers.

Broiler farming is the most dynamic sector of agribusiness. The author reviews the world broiler industry over the last few years to judge its implications for India.

World Broiler Industry

DAVID J. LOBO
Managing Director, Deejay Group, Bangalore

BROILER farming is in its infancy in India with a per capita consumption of a few grams per annum compared to 40 kgs plus, of several developed countries. But, our broiler farming activity today appears to be like the waking of a slumbering giant. So, this may be the time also to look at the world broiler industry, review it over the last few years to judge its implications for India. The data compiled is as of 1983, based on information presented at the poultry symposium held at Athens in 1985 by MSD AgVet.

Broiler farming is a comparatively young activity in the entire gamut of agribusiness. However, it is the most dynamic sector of agribusiness. Just a short time ago, in the USA in the 'thirties, it took 8 kg of grain to produce a small broiler of 14 weeks of age. How different the story is today!

A better idea of what broiler farming is all about can be had by comparing it to the red meats i.e., beef and veal, pork, lamb and mutton. During the last ten years, beef, veal, lamb and mutton has had no growth, pork has had a 30 per cent growth, whereas poultry has had a 55 per cent increase.

TABLE 14. Percentage comparisons of world meat production.

%

	1975	1983
Poultry	16.5	21.8
Pork	34.2	35.2
Beef & veal	44.3	38.7
Lamb	5.0	4.3

Let us look a little further back and check the consumption of poultry in relationship to red meats on a worldwide basis:

TABLE 15. World consumption of meat.

%

	1961-63	1971-73	1981-83
Poultry	10	17	22
Total red meat	90	83	78

Similarly, compare the poultry share of world trade:

TABLE 16. Relative share of world trade.

%

	1961-63	1971-73	1981-83
Poultry trade	6	9	17
Red meat trade	94	91	83

The above tables show how rapidly poultry is growing and the many factors that weigh in its favour for further growth.

Let us now take a look at the progress and development of the broiler sector itself. The USA today is the world leader in broiler production and efficiency. Consequently, US figures are taken.

TABLE 17. Comparison of broiler performance in 30 years.

	1953	1963	1973	1983
Market age (days)				
Market weight (kg)				
Feed conversion ratio				

TABLE 18.

	Last 30 years	Last 10 years
Market age	39	14
Market weight	23	6
Feed conversion		

The Tables 17 and 18 show a tremendous development in broilers in all areas. Geneticists worldwide are confident of bringing in further benefits. These are the predictions for broiler farming:

- In the early 1990's, poultry meat production would compare favourably in a 3-way tie with pork and beef. It would take 30 per cent share of the world meat consumption compared to 22 per cent in 1981-83. Poultry meat production will also take 25 per cent of the world meat trade compared to 17 per cent in 1981-83.
- By the late 1990's, the predictions are that poultry meat production will yet surge ahead. It will stand first ahead of pork and beef. The reasons for this are simple. Over pork and beef, poultry enjoys better feed efficiency, lower overall costs, increasing demand and acceptance and has a more dynamic industry structure.
- The following are the targets for broiler production in 1993:

TABLE 19. Broiler performance targets in 1993.

	1993	Over 1983
Market age (days)	42	14% gain
Market weight (kg)	1.97	5% heavier
Feed conversion ratio	1.87	7% better

All concerned in the broiler production should be aware of this tremendous challenge and growth prospects for broiler farming. These goals can be reached through the dedicated efforts of geneticists, nutritionists, husbandry and disease control.

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Broiler stocks have undergone spectacular improvement during the last two decades. Some useful management tips for broiler breeders for maximum production and reproduction performance are presented here.

Management of Broiler Breeders

Dr HARPAL SINGH
Director,
Central Poultry Breeding Farm, GOI, Chandigarh

BROILER stocks have undergone spectacular improvement during the last two decades compared to egg-type stocks. Most of the improvement has been brought about by intense selection for increased growth rate in parental lines. Bodyweight, being highly heritable trait, responds to selection at a faster rate. Today, modern commercial broilers weigh as much as 2.4 kg at about eight weeks of age compared to approximately half of this weight twenty years ago. In addition to improved growth rate, efficiency of feed utilization for growth has also concomitantly improved.

It is obvious that to attain higher growth rate in commercial broilers, parental lines too, need to be developed for faster growth rate. Due to increased feed intake and relatively low egg production, the cost of production of commercial broiler chicks is very high compared to egg-type chicks. Excessive bodyweights in parental lines are disadvantageous because of higher feed consumption and lower stocking density. There is sufficient evidence to suggest that there exists an optimum bodyweight for maximum production. Deviation from this optimal bodyweight leads to lowered production performance. Thus, controlling bodyweight in broiler breeder stock through modifications in feeding schedule and management practices is very essential.

One of the major objective of the primary breeders is to maximise the number of saleable commercial broiler chicks per breeder pullet. It can be achieved through improving egg production (settable eggs), in addition to broiler traits in female lines. Work on the incorporation of dwarf allele in the female parents to reduce body size is also in progress. Dwarf breeder pullets require less feed for maintenance as well as less housing space. The introduction of dwarf allele in broiler breeder stock is still on experimental basis and yet to be exploited commercially.

In basic pure line breeding, attempts are also made to minimise adult bodyweight through genetics. Such breeding programme comprises maximising weight at market age and reducing body size at growing and adult stages. This approach may not lead to much encouraging results due to strong relationship with bodyweight at different ages. Maintenance of growth curve in case of broiler breeding stock is, therefore, to be achieved by modifying management practices. Restricting feed intake of the birds is, therefore, an important tool for controlling body size.

In addition to general health of the flock, particular attention for the proper development of reproductive organs is also important so that restricting body size may not hamper the development of reproductive organs. Growth pattern of the birds must synchronize with the maturity of the breeding flock. Some useful management tips for broiler breeders for maximum production and reproduction performance are presented here.

ADVANTAGES OF CONTROLLED BODYWEIGHT

Flock uniformity: Bodyweight uniformity is

one of the important criteria for the quality of the stock. Majority of the breeder stock should be in the range of 10 per cent of average bodyweight of flock. Flock reared on restricted feeding has greater uniformity. Such a flock attains peak egg production and maintains it for a longer period. Uniform flock also matures at optimal age and also have less variation in age at maturity. Social dominance due to weight differences is also minimised. Greater uniformity in a flock is, therefore, desirable than the average body size. To minimize variation, flocks of different ages should, therefore, be kept separately.

Fertility and hatchability: Uncontrolled bodyweight has been reported to adversely affect fertility as well as hatchability. Males having excessive weight produce poor quality semen and have difficulty in mating. Flocks having controlled weight through restricted feeding have been reported to have about 20 per cent higher fertility and 13 per cent higher hatchability compared to ad-lib fed flocks.

Egg production: Reduced egg production have been observed in a flock having uncontrolled weight. Each strain has optimum bodyweight for maximum egg production. Birds, too light, lay eggs at a higher rate but of poor egg size. Conversely, heavier hens produce at lower rate. Ad-lib fed flocks also fail to attain peak egg production. Flocks reared on restricted feeding have been reported to produce about 5 per cent increased hatching eggs.

Feed cost and housing space: Undoubtedly, feed is very costly input in poultry production. Breeders reared on ad-lib feeding schedule consume about 25 per cent more feed than the birds on restricted feeding. Thus, reduced feed cost through restriction has a direct bearing on the cost of production of commercial broiler chicks. Birds, having controlled weight, need less floor space, feeding as well as water space. These factors increase the stocking density of controlled bodyweight flock.

Livability: Ad-lib fed birds because of their increased feed intake have the tendency to deposit excessive body fat. On the other hand, flock put on restricted feeding produces much leaner birds. Excessively heavier birds are more susceptible to heat stress and other stress conditions and thus, have poor livability. Too light birds also have high morbidity.

Defective eggs for hatching: All eggs laid by a hen may not necessarily be suitable for hatching. Common abnormality in broiler breeders is that of double-yolked eggs. These eggs do not hatch. Incidence of double-yolked eggs is also under genetic control. Family showing higher incidences of this trait may, therefore, be rejected for breeding purpose. Other abnormalities included extra large, mis-shapen and cracked eggs. Frequency of these abnormalities is comparatively less in a stock reared on restricted feeding.

BODY SIZE AND LAYING PERFORMANCE

Body size at maturity is directly related to the onset of egg production as well as first year rate of lay. Obviously, major objective is to attain proper development of reproductive organs and to ensure proper fleshing at about 23-24 weeks of age. Bodyweight may not necessarily serve as a perfect indicator for the condition of flock. It is felt that a minimum amount of fat is also necessary for inducing egg production in chicks. However, fat present in excessive quantity leads to poor egg production, reproductive performance and livability. Thus, feed restriction in broiler breeder flock should be such that birds are lean and do not possess excessive fat at the onset of lay.

Heavy feed restriction to correct bodyweight of overweight flocks leads to delayed maturity. Flocks above recommended weight during rearing period mature earlier and begin to lay at an early age and fail to attain peak egg production. Lean birds have also been reported to be more resistant to hot weather. Thus, feeding programme and husbandry practices should be suitably modified so as to attain suggested growth pattern.

It is recommended to achieve the weight of about 2.55 kg at 24 weeks of age in breeder pullets for maximum production. This bodyweight must be achieved with uniform growth through moderate feed restriction. Uniformity in flock for body size is also desirable at this age. Flocks showing high variation may be grouped according to their size and housed separately, such that slightly severe restriction could be applied to heavier group compared to light and medium groups. Primary poultry breeders, thus obtain suggested bodyweight, with greater uniformity of broiler breeders.

Relationship of bodyweight with production performance is well recognised by the producers and breeders but not well under-

stood. Bodyweight broadly can be thought of consisting of components like muscles, fat contents and bone framework. Proportions of these body constitutents go on changing with age, management and level of production. Relative importance of these constituents in relation to production and reproduction performance needs to be thoroughly investigated, especially under tropical conditions.

There is evidence that management greatly contributes towards "muscles" and "fat" deposition whereas genetics plays critical role in determining "bone framework". However, bone structure acts as a support upon which are superimposed other body structures. Minimum bone framework is thus essential for satisfactory performance.

Medium sized birds lay eggs at a higher rate of satisfactory egg size. These birds are also efficient in utilising feed for the production of daily egg mass output. Optimum bodyweight maintained through better management, feeding and disease control lead to higher production performance than the genetically controlled bodyweight.

Lighting schedule: Light through eye stimulates the production of various hormones responsible for growth of reproductive organs. Lighting acts as an important aid in controlling maturity of the breeder flock. Minimum amount of light is necessary to induce egg production in chickens. However, natural day length also depends on the location. Breeders hatched in September through January in North latitude area get comparatively more light during growing period compared to February-August hatches.

Thus, September-January hatches, because of more day light, will mature earlier at lower bodyweight. On the contrary, chicks hatched from February through August get comparatively less day light at growing stage. Thus, artificial light should be provided such that it does not fall below 12 hours during months when natural day length is decreasing. These flocks may be subjected to artificial light so as to induce egg production in such flocks. As light stimulates the pullets to come into production, it must be ensured that bodyweight targets are achieved before light is started. During laying stage, 14-16 hours light may depress egg production. Reduction in light hours and intensity during laying stage must be avoided.

Age and method of feed restriction: Age at which feed is to be restricted also depends on the type of stocks. In the broiler parent stock, it is advisable to start feed restriction as early as three to four weeks of age. Restricting feed at this age helps in monitoring desired bodyweight at subsequent ages. However, feed restriction in pureline stocks has to be postponed until the age of selection of the birds. It is usual practice to base the selection criteria in broiler flocks at about 6-7 weeks of age. Birds selected under feed restriction may not exhibit true breeding values for bodyweight. Hence due to delayed feed restriction in pureline stocks, problem of overweight flock is common.

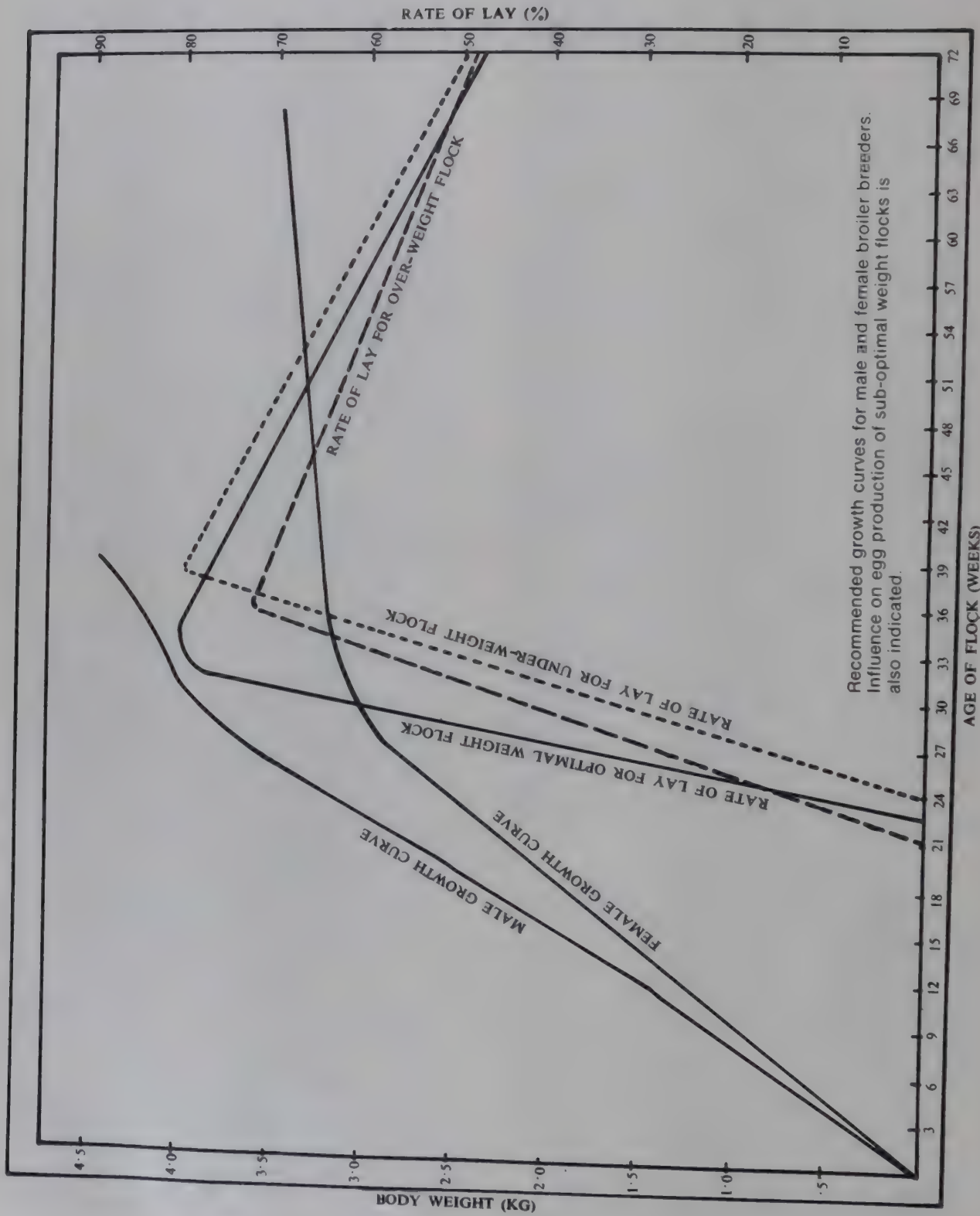
Restricting feed quantitatively is very popular as it is simpler and easier to use. There are two further options in this system, i.e. daily or alternate day feeding. In daily feeding, birds are given limited quantity of feed every day. Entire feed is divided into smaller lots and given at different periods. Enough feeders should be available in the poultry houses so as to provide opportunity to all the birds for feeding.

"Skip-a-day" programme consists of providing feed to the birds on alternate days. In this method of feeding, double of the quantity of feed is given to the birds on every other day. Half of the feed is given in the early morning hours and balance in the afternoon hours. This system provides enough chances for all the birds specifically weak birds to consume feed as it will be available for longer periods. This is perhaps the reason for greater uniformity in a flock put under "skip-a-day" programme.

Water restriction also is beneficial in preventing wet litters in the poultry house. Specifically on off-feed day, not more than 4 to 6 hours water depending on season should be available to the birds. On feed days, it is usually recommended to provide water up to one hour after entire feed is consumed by the birds.

MANAGEMENT DURING SUMMER

Environmental factors influencing productivity of the breeders include temperature, humidity, photo period and ventilation space. Among these, temperature plays a critical role in determining production efficiency of the breeder flock. Normal


RATE OF LAY (%)
90
80
70
60
50
40
30
20
10
RATE OF LAY FOR OVER-WEIGHT FLOCK
RATE OF LAY FOR UNDER-WEIGHT FLOCK
RATE OF LAY FOR OPTIMAL WEIGHT FLOCK
FEMALE GROWTH CURVE
MALE GROWTH CURVE
Recommended growth curves for male and female broiler breeders.
Influence on egg production of sub-optimal weight flocks is
also indicated.
AGE OF FLOCK (WEEKS)
3 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57 60 63 66 69 72
BODY WEIGHT (KG)
·5 1·0 1·5 2·0 2·5 3·0 3·5 4·0 4·5

temperature range for maximum production is 60° to 75°F. Breeders due to their excessive weight are very sensitive to hot climates.

Heat stress in broiler breeders leads to reduced egg production, increased mortality, thin shelled eggs and poor hatchability. Quality of hatching eggs also deteriorates rapidly. In breeder males, it leads to the production of watery semen resulting in poor fertility. These factors add up and reduce the production of hatching eggs per pullet considerably. Thus, to minimise the losses due to heat, steps should be taken well ahead in time.

It must be ensured that birds get recommended levels of minerals and amino-acids, because during summer they are likely to become nutritionally deficient due to decreased feed intake. Enough ventilation space must be provided in the poultry houses. Providing insulation to the ceiling and walls helps in reducing temperature in the poultry houses.

At Central Poultry Breeding Farm, Chandigarh, a four-inch thick thatch was provided on roof having asbestos sheets. Egg production, fertility, hatchability improved to great extent in the flocks under these sheds. Mortality rate in broiler breeders due to heat stress also came down considerably. Providing thatch along with sprinkling of water on the roof reduces temperature of the poultry houses by 8 to 10°F.

Majority of the mortality and other losses occur during this upper range of temperature. Direct sun rays into poultry houses must be avoided. Enough space to broiler breeders should be provided to avoid overcrowding. Flogging in the poultry houses helps to reduce heat stress. However, it must be ensured that the birds do not become excessively wet, and litter remains fairly dry.

Breeders if required to be shifted to another house must be moved during cooler part of the day. Overcrowding of the broilers in catching crates leads to higher transit mortality. Increasing male ratio in the breeder flock during summer helps in improving fertility to some extent. Water in abundant quantity during summer must be available to the breeders.

Suggested growth pattern and its maintenance: Normally, flock reared on the standard bodyweight schedule lays about 185 eggs per female upto 68 weeks of age. Approximately 8 to 10 per cent of the eggs are rejected for the purpose of hatching. Major causes of discarding such eggs are smaller eggs (below 50 gms), oversized (above 65 gms), double yolked, mis-shapen and thin shelled eggs. Considering hatchability of 80 per cent, approximately 130-135 commercial broiler chicks per broiler breeder pullet are expected in a flock having controlled weights.

Feed intake of birds should be regulated such that the flock attains desired bodyweight at maturity. Commercial broiler breeders emphasize to their franchisers on achieving the desired bodyweight targets of broiler breeders. Growth patterns recommended by various primary breeders are very much similar. Thus, the average growth curve can be taken as a fairly good criterion for the maintenance of bodyweight at different ages.

Recommended growth curves for male as well as female broiler breeders is given on page 62. Flock average should lie within 10 per cent of the limits of bodyweight given in this figure. For best performance, it is suggested to keep flock average weights 10 per cent below recommended weights up to 16 weeks of age. Afterwards, the weights of the flocks should average in the upper 10 per cent limit of recommended weight.

At maturity, breeder pullets must attain the weight of 2.55 kg with fairly good uniformity. This weight must be achieved uniformly specifically after 16 weeks of age till maturity. At the time of maturity, birds have the tendency to grow faster. Thus, growth rate during 24 and 27 weeks is also relatively higher. Average weight of breeder pullets at 27 weeks should be approximately 2.85 kg. Growth beyond 27 weeks of age is minimum. Maximum bodyweight at the end of laying cycle should not exceed 3.5 kg.

Weight during growing is very critical and attempt must be made to attain desired weights for maximum production. For guidelines, feed allowance (feed containing 2700 Kcal/kg energy) for Wth week in case of male and female breeders up to 24 weeks of age can be calculated using following formula:

Females: Daily feed intake per bird = 34+ (3.2 x W)
Males: Daily feed intake per bird = 34+ (4.1 x W)

W represents week for which feed is to be determined.

Example: Feed intake in case of breeder pullets at 15 weeks will be: 34+ (3.2 x 15) = 82 grams/bird/day.

At point of lay, daily feed consumption of breeder pullets should be about 110 grams per bird. For male breeders at 24 weeks, feed intake should be in the range of 130-135 grams/bird/day. Birds consume feed to meet their energy requirements for maintenance and production. After maturity, most of the feed is utilized for maintaining egg mass output. At peak egg production (32-40 weeks of age), the daily feed consumption of broiler breeder flock should be 165-170 grams/day. Beyond 40 weeks of age, the feed intake should be reduced to 155-160 grams/bird/day due to decreased egg production. Variation in intake of feed may be due to season and quality of feed. Primary objective is to maximise feed utilization for production. During laying sufficient feed consumption must be ensured for maximum production efficiency. Increment of 3-5 gms of feed per bird/day may be attempted to determine optimum quantity of feed. Extra feed allowance may be withdrawn if it does not enhance production performance.

The consequences of over and undersized flock on the rate of lay is also given on page 62. Excessive weights usually occur due to overfeeding and unbalanced diets.

In excessive bodyweight flocks, attempts should be made to correct weights before 16-17 weeks of age by placing slightly severe feed restriction. Too severe feed restriction leads to high mortality. Total weight to be lost in the entire period must be uniformly divided on weekly basis. Weight of the flock should be brought to recommended bodyweight by 16 weeks of age. Severe feed restriction must be avoided after 16-17 weeks of age, as it adversely affects the development of reproductive and other vital organs. Sudden decline in weight also leads to non-uniformity in the flock.

Use of artificial insemination (AI) in broiler breeders is also sometimes recommended to minimize mortality in females due to heavier males. For carrying out AI, birds are needed to be kept in cages. Rearing broiler breeder flock in cages is still controversial. Broiler breeder pullets kept in cages suffer from "cage layer fatigue" and also have the tendency to deposit excessive fat resulting into lower production.

AI may not therefore be helpful in increasing hatching eggs, in the flocks reared strictly according to recommended weights. However, in excessively heavier flocks to minimize mortality in females due to heavier males, inseminating pullets artificially may improve fertility to some extent. Therefore AI in broiler breeder stock is recommended only in case of infertility caused by heavier males.

Problem of lower bodyweights than those recommended during growing stage may also be experienced. This may be due to nutritionally unbalanced diets and unhealthy conditions of the flock. Flock reared below recommended bodyweight has delayed maturity and may lay at slightly higher rate. Frequency of smaller sized eggs is also comparatively high. Underweight flocks are comparatively easier to correct for standard bodyweight. However, such a flock should be subjected to slow compensatory growth.

Another alternative to correct over and under-bodyweights of the broiler breeders is to separate such flocks according to their bodyweights, viz., light, medium and heavy. Birds belonging to different classes of body size may be housed separately. Feed restriction may, therefore, be more severe in heavier groups compared to other groups. This system is very helpful in attaining desired weight and maintaining uniformity of the flock.

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Egg traders are a very important link in the chain of poultry business. The biggest problem faced by them is lack of control on egg supplies.

Egg Marketing

H.T. KHORAKIWALA
Chairman,
Poultry & Allied Products Pvt. Ltd., Bombay

TRADERS in eggs are a very important link in the chain of poultry business. Poultry farmers are very much involved in looking after their day-to-day problems of production of eggs. Most of the farmers are not exposed to trading. Hence, they have to take the help of traders to market their products which are perishable in nature. Traders lift eggs from poultry farmers or wholesalers and make it available tc the consumers through semi-wholesalers, retailers and "ferrywallas."

The services rendered by the traders are not very much appreciated by poultry farmers, and they always feel that traders manipulate the prices and take full advantage of their position. Poultry farmers feel that traders sell the products irrespective of the cost of production, hence they lose in the bargain. However, in reality, traders sell the products as per supply and demand, and the products being of a highly perishable nature, it is not possible for them to store it.

PROBLEMS OF EGG MARKETING

The biggest prcblem faced by traders is lack of any control on supplies of eggs. Whatever eggs are produced by farmers are sent to the trader, irrespective of whether the trader can handle them or not. The prcblem arises in summer months and during some festival season when the consumption goes down. As a result, prices go down. This leads to heavy loss not only to the trader but also to the poultry farmer. Eggs are not sold as per the grades prescribed by the Agmark, hence traders have tc collect even pullet eggs along with jumbo eggs and pay the same price for the eggs which weigh as less as 50 gms or as much as 60 gms and above. Mixed grade eggs cause a lot of problems to the trader. The consumer does not want small eggs. They prefer large eggs. Hence small eggs are sold at a discount, whereas purchase price remains the same. Traders lose heavily in disposing off pullet eggs.

The poultry farms are not very hygienically maintained. Most of the eggs coming into the market are dirty. These dirty eggs are not acceptable to the consumer and they deteriorate faster. Eggs are not properly packed and transported. A lot of large eggs break in transit because their shells are very weak. Approximately two per cent breakage occurs in transportation. Here again the traders lose.

Traders in Bombay get a fixed margin of Rs 2.25 per 100 eggs irrespective of the fact whether egg prices are low or high. The range is from Rs 30 to Rs 60 per 100 eggs.

PATTERNS OF EGG MARKETING

Bombay city is the largest consuming centre of eggs. It consumes on an average 2 million eggs per day. Most of the eggs come by road from Andhra Pradesh which is surplus in egg production. They are sent by truck loads. A small quantity comes by train. Payment is made within three to four days of the receipt of the consignment. Normally, traders sell their eggs from their own shops. Some dealers sell to semi-wholesalers a small percentage of

the consignment directly. Some organised traders have their own delivery vans and deliver eggs to the customer at their premises. Most of the customers are given eggs on credit which may range from eight days to 1½ months.

IMPACT OF NECC

NECC is a central organisation which has brought about a lot of discipline in the egg trade. They are now declaring wholesale prices of eggs all over India. NECC has an extremely good information system, and they know where eggs are surplus. As a result, they can direct supplies to the areas where eggs are required and decide a realistic price. NECC has succeeded in determining the cost structure of the wholesalers at the production centre as well as the consumption centre. They have stabilised the commission structure which has resulted in great relief to traders all over. NECC is publishing purchase prices everyday in the papers, and these prices are now being accepted as standard prices by poultry farmers as well as traders all over India.

Prices are fixed largely on the market intelligence gathered by NECC offices in large consuming centres like Bombay, Delhi etc. The consumption and demand of eggs are studied. Weightage is also given to stocks in the market. Prices are fixed keeping these factors in mind.

Keeping with the seasonal fluctuations in prices, if the following suggestions are implemented, it will help prevent losses to the farmers as well as to the traders:

- Production of eggs should be controlled through proper guidance to the poultry farmers at the time of purchase of day-old chicks.
- During festival seasons, like Shravan, Ramadan, the supply of eggs can be diverted to other areas where there is a better demand. A control of 10 per cent of supplies of eggs would eliminate losses by way of drop in prices. If it is not possible to divert the supplies to other places, eggs should be put in cold storage. Removing of 10 per cent to 15 per cent of eggs from the market during seasonal fluctuations will help in the maintenance of steady prices. Hence, losses both to poultry farmers and traders could be checked.

(Continued on page 72)

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The impressive track record of the Gujarat Poultry Federation is reflected in the successful revival of small poultry cooperatives. A major factor in their viability has been the support services like inputs and marketing infrastructure provided by the Federation.

Cooperative Poultry Marketing: Gujarat Experience

Dr C.K. DEDHIA
Managing Director,
Gujarat State Poultry Farmers' Cooperative Federation Ltd., Ahmedabad

THE development of poultry industry in the private sector during early 'seventies and the success of milk cooperatives in Gujarat led to the establishment of cooperative movement in poultry farming. Subsequently, the emphasis of the government policy to help the weaker sections through rural employment resulted in the growth of cooperative sector in the poultry industry.

Thus, most of the poultry cooperatives were sponsored under various government schemes to provide employment to the weaker sections of the society. Later on, special schemes for the landless labourers, schedule caste and schedule tribes and economically backward classes as well as for small and marginal farmers all were introduced under Integrated Rural Development Programme (IRDP), Special Livestock Production, DRDA and many other similar programmes. The incentives provided by the state as well as the Central Governments and the availability of inputs like priority financing, high-yielding birds, scientific management methods and health cover, enhanced and consolidated the growth and development of poultry in Gujarat state.

The total fowl population in Gujarat almost doubled from 2.3 million in 1966 to 4 million in 1982 showing an annual growth rate of 4.62 per cent, while the population of improved birds in the state rose from 0.11 million to 1.3 million in 1982 showing a growth rate of 6.7 per cent. The annual egg production was 95.7 million in 1971-72. Its annual growth was 7.70 per cent in the 'seventies. It is now expected to reach 270 million by the end of 1985-86. Thus, the overall analysis of the growth in fowl population as well as in egg production indicates a definite but slow growth.

The progress of poultry cooperatives can be seen from Table 20 below. It is evident that the percentage of cooperatives making profit or incurring losses decreased with subsequent rise in the percentage of cooperatives breaking even. The cooperatives were financed by the banks under DRDA or IRDP or banks' own schemes. Besides this, a subsidy upto 50 per cent of the fixed capital as well as initial working capital was made available by the State Government to the cooperatives. The units in the cooperative sector were established in either clustered format or in a scattered format.

Most of the cooperatives were established with the limited objective of taking immediate advantage of the schemes. No proper assessment was made of the availability of feed, health coverage services and marketing of poultry products. Little consideration was given for the follow-up, monitoring, control as well as corrective measures for the effective implementation of the scheme. All these factors led to the haphazard development in the coopera-tive sector.

One major problem faced by the poultry cooperatives was marketing of eggs. No marketing expertise was available with the cooperatives, until the advent of the state level Federation in 1978.

TAPLE 20. Status of poultry ccoperatives in Gujarat.

Particulars	1970-71	1977-78	1983-84
No. of Ccoperative Societies	10 (100)	71 (100)	85 (100)
No. of Societies in Profit	3 (30)	14 (19.7)	16 (18.8)
No. of Societies in Loss	5 (5C)	24 (33.8)	26 (30.6)
No. of Societies with no profit/loss	2 (2C)	33 (46.5)	43 (50.6)

Source: Reserve Bank of India.

STATE FEDERATION

The primary objective of the Federation is to provide remunerative prices to poultry farmers. The supply of inputs such as feed, birds and technical services also constituted the main aspects of the Federation's objectives. During the last six years of its existence the Federation has taken steps to organise marketing of egg and other poultry products as also supply of basic inputs to poultry farmers. Today, the Federation has depots at Ahmedabad, Rajkot, Gandhinagar, Vadodara, Bharuch, Surat, Valsad, Vapi, Bombay and Poona for egg marketing and procurement.

The Federation started with a modest beginning by conducting survey of egg markets in Bombay and Ahmedabad. The survey revealed:

- Returns to the farmer were not related to the cost of production;
- Farmers suffered heavy economic losses during greater part of long summer in Gujarat when the demand slides down to mere 50 per cent of the actual demand in winter and the monsoons;
- The market was flooded with eggs from Hyderabad and Ajmer at a rate lower than even the cost of production in Gujarat and so the local production could not find a remunerative market;
- Farmers were reluctant to break their traditional trade link with wholesalers in the absence of alternate market outlets.

In order to wean away farmers from the monopolistic grip of traders and to provide remunerative returns, the Federation quickly employed remedial measures to eliminate factors responsible for ruining the viability of their farms.

Prompt payment: It was observed that wholesalers always witheld payment to farmers for their last two or three consignments. This gave no scope for alternate arrangement as by doing so they were likely to lose the outstanding payment due from wholesalers. The Federation adopted the system of "spot payment" by means of which farmers received payment at the time of delivery of eggs.

Assured lifting of eggs: Farmers depended heavily on private merchants and feed suppliers who bought eggs during good season and stopped buying eggs when the demand dropped. Farmers were left in a helpless condition forcing them to dispose huge quantity of unsold eggs at distress prices, especially in summer. The Federation came out with a firm commitment to buy eggs from farmers all the year round and has already earned tremendous credibility in this regard. The Federation has faithfully honoured its commitment, which is attracting more and more farmers to come under its fold. In fact, the daily procurement which was around 5,000 eggs per day has gone up to 1,00,000 eggs per day during the last two years.

Egg support price: The egg price goes down below the cost of production, particularly during the summer months. During such periods, small farmers are not able to withstand this situation. So, the State Government has sanctioned a scheme of support price for eggs and has provided loan to the Federation for this purpose. According to this scheme the Federation is to purchase all the eggs at the minimum support price of Rs 43 per 100 eggs from those farmers who have marketed all their eggs over the year through the Federation. Gujarat is perhaps the only state where the egg support price is prevalent.

Revival of Sick Units: The Federation has taken steps for the revival of sick units. Initially, cockerel rearing programme was initiated in sick units of valsad. Gradually, broiler or layer chicks are supplied to the revived units which are now functioning satisfactorily.

The oldest and the biggest poultry cooperative society was located at Bilimora. This society was nationally known as a major production-cum-distribution centre. The society was on the brink of liquidation. Due to the sustained efforts of the Federation, this society has now been reactivated and the Federation has taken over the reins of the society as custodian.

THE FEDERATION'S IMPACT

The progress of the Federation is quite evident from its turnover for the last three years.

TABLE 21. Turnover of GSPFCFL, 1981-84.

Rs million

Year	Total Turnover
1981-82	2.62
1982-83	6.44
1983-84	18.00

The Federation undertakes the following major activities:

- Procurement of eggs;
- Sale of eggs;
- Sale of birds;
- Supply of day-old chicks;
- Supply of feed.

The performance of the Federation in these fields is shown in Tables 21-26.

TABLE 22. Procurement of eggs by GSPFCFL.

million

Year	Eggs
1981-82	4.00
1982-83	11.24
1983-84	30.00

TABLE 23. Sale of eggs by GSPFCFL.

million

Year	Sale of Eggs
1981-82	3.86
1982-83	10.73
1983-84	28.7

TABLE 24. Sale of birds by GSPFCFL.

Year	Birds sold
1981-82	11,650
1982-83	33,100
1983-84	39,000

TABLE 25. Supply of day-old chicks by GSPFCFL.

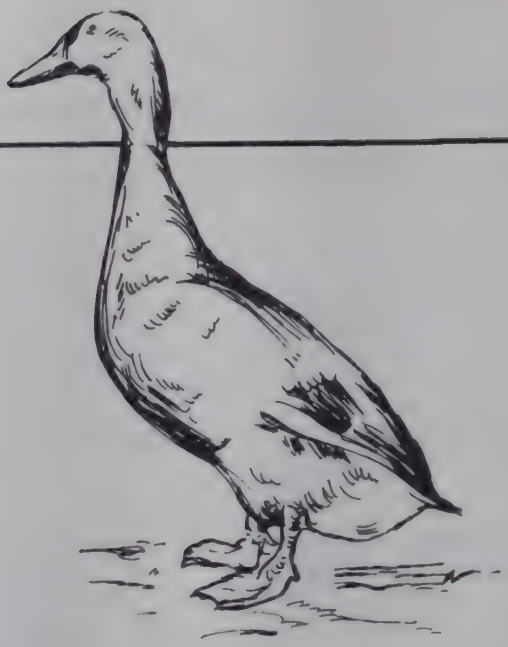
Year	Chicks
1981-82	2,725
1982-83	74,227
1983-84	1,40,000

TABLE 26. Supply of feed by GSPFCFL.

tons

Year	Feed Supplied
1981-82	226
1982-83	327
1983-84	2,650

The performance and the impact of the Federation cannot be assessed in terms of the total quantum turnover. The real mirror would be the return to the farmer.



HESSARAGHATTA
KHAKI CAMPBELL DUCK
(A Prolific Layer)

Production Potential

Age at first egg	...	120 days
Age at 50% production	...	146 days
Annual egg production	...	300 eggs
Egg weight at 40 weeks	...	66 gms.
Body weight at 40 weeks	...	1.8 kg.
Daily feed consumption per bird	...	120-150 gms.
Duckling mortality (0-8 weeks)	...	2-3%
Grower mortality (8-20 weeks)	...	0.2-0.5%
Adult mortality (20-72 weeks)	...	5-7%

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CENTRAL DUCK BREEDING FARM

(Government of India)

HESSARAGHATTA 560 088 (Bangalore North)

Tele: Hessaraghatta-38 *Grams:* DUCKFARM, Hessaraghatta 560088

RAISE HESSARAGHATTA KHAKI CAMPBELLS,
THE TOP EGG PRODUCERS.

Introduction of quail farming in India has opened up an attractive alternative for the poultry farmers to fight poverty and malnutrition.

QUAILS



Dr B. PANDA
Director,
Central Avian Research Institute, Izatnagar

&

Dr S.D. AHUJA
Head, Division of Poultry Housing & Management,
Central Avian Research Institute, Izatnagar

QUAIL, commonly called 'bater', is a table delicacy since times immemorial. The beginning of quail farming can be traced to the desire among the Japanese to use the quail egg as an antidote and cure for tuberculosis. Quail farms in China and Taiwan are centuries old. Commercial quail farms for egg and meat are also popular in Japan, Hongkong, Korea, France, Italy, Germany and Britain.

The Japanese quail (Coturnix coturnix Japonica) was first introduced in India by the Centre of Excellence in Poultry Science under UNDP/ICAR project at Izatnagar in 1974.

DISTINCT CHARACTERISTICS

Quails are noted for the following distinct characteristics:

- short generation interval (3-4 generations/year);
- early sexual maturity (6-7 weeks of age);
- low feed requirements(about 20-25 gms of feed/day;
- minimal floor space: 8-10 birds in a place required to house one chicken;
- high rate of lay (280 eggs/year);
- early marketing age (5 weeks);
- high nutritive value of the egg and delicious meat.

Quails are also very useful and economical as a pilot animal in research and education in the field of nutrition, physiology, genetics and breeding, studies on ageing and cancer research, embryology and disease investigation.

The Central Avian Research Institute (CARI) is the pioneer institute engaged in quail production research and is playing a role of nucleus source for supply of improved germ plasm and technical know-how about quails in the country.

PRODUCTION AND REPRODUCTION

Chicks: The quail chicks weigh about 6-7 gms at the hatching time. The downs are somewhat yellowish in colour marked with dark coloured stripes.

Adults: The adults nearly weigh 100-200 gms (depending upon the line). The female is heavier than the male. The plumage colour of Faraoh (wild type) quail is a blend of various shades of brown and black. The upper part of the breast is cinnamon coloured while the lower portion is light brown in the case of males. In females, face, throat and upper portion of the breast are brown with black markings whereas the lower part is tan in colour.

Sexes can normally be identified at three-four weeks of age by their difference in plumage pattern.

Varieties: There are five varieties classified on the basis of plumage colour. They are Faraoh (wild type), British Range (dark coloured), English White (white feathered), Manchurian Golden (mixture of shades gaining golden appearance) and Tuxedo (two coloured variety).

Egg Production: Domesticated quail can be reproduced throughout the year. The hatchability is comparatively better during winter and spring seasons as compared to

summer and monsoon seasons.

The female quail generally matures around 6-7 weeks of age and picks up rate of egg production quite quickly usually reaching 50 per cent mark by eight weeks and crossing 80 per cent production level by ten weeks of age. They lay their eggs in the afternoon. About 75 per cent of the day's production is laid between 3 and 6 pm.

Brooding and Rearing: Quail chicks are more delicate as compared to chickens and hence need a better care during the first two-three weeks of their life. Thereafter, they are hardier.

DISEASES

Although susceptible to common diseases existing in chickens, quails are resistant to Ranikhet Disease, fowl pox and the like. The common ailments encountered are ulcerative enteritis (Quail's Disease), Quail Bronchitis, aspergillosis, etc. No vaccination programme has been adopted in quails at CARI since introduction of this avian species at the Institute and no untoward incident has occurred so far. Hygiene has been observed to be of prime significance at all stages of quail production programme.

PRODUCTS TECHNOLOGY

Quails produce egg and meat which are of high biological value.

Egg: The quails lay eggs in the afternoon. The quail egg weighs around 10 gms on average and is 7 to 8 per cent of the body weight of the quail layer. The shell presents imagery of colours, ranging from almost white to dark brown with mottling of brown to black. White shell eggs are also present. The albumen to yolk ratio is narrow (61:39). Per cent of yolk is more and albumen less as compared to chicken eggs. They can be utilized like chicken eggs, in addition they form very good pickle, when boiled, peeled and preserved in vinegar solution containing spices.

Meat: Quails are ready for market around five weeks of age when they weigh nearly 130 gms with feed efficiency of 3.5 and dressing percentage of over 70 per cent. Breast and thigh contribute nearly 68 per cent of the total carcass.

Quails can be pickled in vinegar solution or oil containing spices. They can also be roasted in tandoor.

Constraints: At present, there are no hatcheries to supply commercial day-old quail chicks. So, farmers have to have a hatchery facility to sustain regular supply of these birds to the market.

Due to high feed cost and low feed conversion efficiency, the production cost per quail is high, but this is offset by the high rate of reproduction and its higher selling price.

As the quail is a recent introduction, efforts have to be made through publicity or other promotional media for popularising this avian species and its products.

Economics: Considering more demand for quail meat rather than eggs, a viable unit should plan for the production of atleast 1000 quails per week for meat. Its three phases are: (i) development of breeder stock by producing hatching eggs; (ii) production of day-old chicks; and (iii) growing of quails upto five weeks of age (marketing age).

The introduction of Japanese quails for farming in India has opened up an alternate avenue for the poultry farmers in this country. As the scale of operation in commercial sector increases, the production and cost per quail will decrease. Research and Development studies are under way at the Central Avian Research Institute (CARI) at Izatnagar to find out the ways and means to make quail farming an attractive proposition. Also efforts made at CARI have given sufficient indication that quail farming will help as an alternate means for fighting poverty and malnutrition in India.

EGG MARKETING

(Continued from page 66)

- Surplus eggs may be sold during seasonal fluctuations to egg processors for converting them into egg powder.
- Efforts should also be made to export eggs at international prices. If all farmers come together and decide to set aside 10 per cent of their eggs for export, local prices would become very much remunerative and whatever loss they may suffer for supplying 10 per cent of the eggs for export would be offset by better prices in the local market.

Low investment and quick returns make quail farming a profitable proposition around cities.

Prospects for Commercial Quail Farming

Dr HARPAL SINGH
Director,
Central Poultry Breeding Farm, GOI, Chandigarh

QUAIL rearing has arcused interest, specially around metrcpolitan cities. Like chickens, although quails can be used both for eggs as well as for meat, the meat type quails are preferred as a delicacy. Many hotels and restaurants have started including quail preparations in their food services. Therefore, quail farming can be a profitable proposition. Strain of meat-type quail attains the weight of about 125-130 grams at marketing age of five weeks. At this age, dressed weight of the quail ranges from 90 to 100 grams. Usually quail preparation consists of tandoori and pickled quails.

Merits of quail farming:

Requires less space; Lower initial investment; Quicker returns; and, less medication.

BROODING AND REARING OF CHICKS

Brooding of quail chicks is almcst similar tc that of chickens but quail chicks require much more attention because of its smaller size. Day-cld quail chicks weigh abcut 7 grams. Brooder temperature during first week should be around 95°F and should be gradually reduced until it reaches 70-75°F at five weeks of age. Maintaining the brooder temperature is extremely important, because any slight deviation of brooder temperature may lead to considerable mortality in chicks. Corrugated paper should be provided on the floor for the first three days of brooding, otherwise death of chicks due to their legs being pulled apart occurs.

Feed and water must be available ad lib during brocding and rearing period. Light duration cf 24 hcurs during brooding and 12 hours during rearing period should be provided. Proper sanitation and cleanliness in sheds is necessary to minimise brooding and rearing losses. It is suggested tc use battery brooders by providing space of 8 to 10 chicks per square foot.

Quail ration containing 27 per cent protein and 2800 kcal/kg metabolizable energy up to three weeks of age and thereafter 24 per cent protein have been reported to lead to faster growth rates. After three weeks of age chicks are transferred to rearing cages having feeders and waterers attached. Rearing cages has the advantage over deep litter system, in reducing mortality and improving growth rate in quails. About 5-6 birds in one square foot can be accommodated for optimum performance. Unnecessary handling and disturbance must be avoided as quails are susceptible to adverse climatic and managemental conditions.

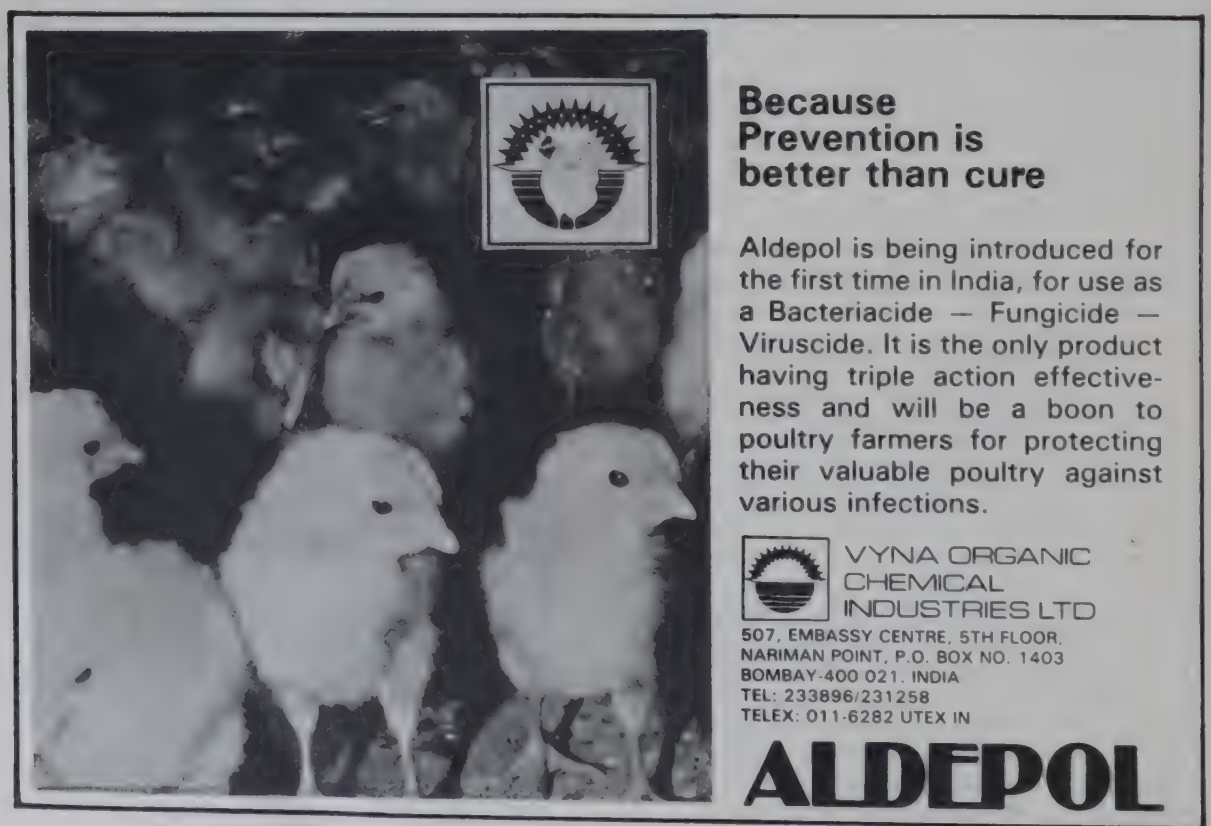
Rearing losses in quails are reported to be as high as 20-25 per cent. These losses can be minimized by providing better management, balanced ration and better health control. At present vaccination in quails is nct recommended. However occurrence of diseases like ccccidiosis, salmonella, pullorum and E coli have been reported. It has also been observed that quails are very susceptible to mineral deficiencies.

One of the major constraints in quail production is the procurement of day-old

chicks. Chicks being smaller in size cannot be transported to distant places. Transit mortality in quail chicks is extremely high. It is, therefore, advisable to produce day-old chicks at the producer level. Small incubator having fairly good capacity to meet the requirement can be installed for hatching quail eggs. About 500 females will be sufficient to produce approximately 1000 chicks per week. Maximum fertility in quails is obtained by mating one male with two females. Hatching trays are specifically modified to hold quail eggs properly.

Incubation of quail eggs is similar to that of chicken eggs. Chicks hatch after 17 days of incubation. Embryonic mortality is maximum on the second and last day of incubation. It has been further observed that males due to their lower weights mature later than the females. Though quails come into egg production at six weeks of age, the optimum fertility in breeder flock is obtained at eight weeks of age. Dewinging of females also improves fertility. Fertile eggs due to very small size should be carefully handled to avoid breakage and should be properly stored in cold egg room. Experience at Central Poultry Breeding Farm, Chandigarh, shows that hatchability of about 60 per cent can be obtained under normal hatchery management conditions.

Quail farming can also be taken up by small farmers and members of weaker sections to supplement their income as it involves less initial investment. Specific efforts are needed to popularise quail farming in urban areas. Public institutions should get involved in the research activities pertaining to quail improvement, specifically to reduce rearing losses. The Central Poultry Breeding Farm, Chandigarh, has recently established a quail unit. Apart from the improvement of this flock, this institute is in a position to supply day-old quail chicks, parent stock and hatching eggs.



ECONOMICS OF PEARING

1,000 MEAT TYPE QUAILS PER CROP OF FIVE WEEKS

			Rs
CAPITAL INVESTMENT			
Building:			
Construction of shed measuring 20' x 20' = 400 sq ft @ Rs 20 per sq ft			8,000.00
Equipment:			
Cost of 2 battery brooders (32' x 64') @ Rs 5,000 each			10,000.00
Cost of 15 chick feeders @ Rs 20 each			300.00
Cost of 6 chick waterers @ Rs 20 each			120.00
Cost of 4 rearing cages (32' x 48' size) @ Rs 3,000 each			12,000.00
			30,420.00
RECURRING & OPERATIONAL EXPENDITURE			
Cost of 1,250 chicks @ Re 0.40 each			500.00
Cost of feed @ 450 gms each bird upto 5 weeks of age = 506.25 kg @ Rs 2.50 per kg			1,265.60
Cost of electricity labour, medicine & litter etc., @ Re 0.50 each bird			625.00
			2,390.60
INCOME			
Sale of 1,000 birds @ Rs 4.25 each			4,250.00
PROFIT			
Income			4,250.00
Recurring Expenditure			2,390.60
		Gross Profit:	1,859.40
Less Depreciation on: Building @ 10%	Rs	80.00	
Equipment @ 15%		325.00	
Interest on capital @ 12%		350.00	755.00
		Net Profit:	1,104.40

Profit: Rs 1.10 per bird per crop



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Statistics

SELECTED INDICATORS OF POULTRY DEVELOPMENT AND PRODUCTION IN INDIA.

TABLE 27. Five-year Plan outlays on poultry development.

Rs million

	Second (1956-57/ 1960-61)	Third (1961-62/ 1965-66)	Fourth (1969-70/ 1973-74)	Fifth (1974-75/ 1977-78)	Sixth (1980-81/ 1984-85)	Seventh (1985-86/ 1989-90)
Outlay	28.0	45.88	115	355	426	602

Source: Annual Report of the Ministry of Agriculture, Dept of Agri & Coop, GOI, and Planning Commission documents.

TABLE 28. Value of poultry products.

Rs million

	1961	1968	1971	1974	1980	1983	1985
Value	650	1,500	1,755	3,400	6,630	8,700	10,000

TABLE 29. Estimated laying stock and egg production, 1961-90.

million

	Layers (Hen)			Eggs		
Year	Desi	Improved*	Total	Desi	Improved	Total
1961	33	2	35	1,980	360	2,340
1966	35	4	39	2,100	720	2,820
1971	35	18	53	2,100	3,240	5,340
1974	42	29	71	2,520	5,220	7,740
1980	30	56	86	1,800	10,700	12,500
1983	25	58	83	1,500	11,460	12,960
1985 (estd)	20	62+	82	1,200	12,900	14,100≠
1986 (proj)	20	67	87	1,200	14,025	15,225
1990 (proj)	15	88	103	900	18,225	19,125

*Includes crossbred
+See Table 35
≠See Table 36

TABLE 30. Estimated broiler production, 1971-90.

million

Year	1971	1975	1977	1980	1983	1985	1986 (Proj)	1990 (Proj)
Broiler	4	10	17	30	50	75	95	150

TABLE 31. Estimate of regional distribution of hybrid layer and broiler chicks in 1985.

million

	Southern	Northern	Western	Eastern & Central	Total
Layers	22	12	10	8	52
Broilers	16	25	22	12	75

TABLE 32. Estimated requirements for day-old layer and broiler commercial hybrid chicks and their parent stock.

million

Year	Layer		Broiler	
	Commercial Chick*	Female Parent Stock	Commercial Chick	Female Parent Stock
1979	61	1.22	26	0.26
1980	67	1.34	33	0.33
1981	64	1.28	39	0.39
1982	62	1.24	44	0.44
1983	67	1.34	57	0.57
1985	68	1.36	83	0.83
1986 (Proj)	73	1.46	105	1.05
1990 (Proj)	100	2.00	165	1.65

*Including crossbreds.
Note: These estimates include allowance for depletion (mortality, culling, etc.)

TABLE 33. Per capita availability of eggs, 1961-90.

	1961	1971	1980	1985	1986 (Proj)	1990 (Proj)
Population (mill)	439	548	675	748	760	850
Egg* output (mill)	2,340	5,340	13,000	14,500	15,660	19,125
Per capita	5.3	9.8	19	19.3	20.6	22.5

*Includes ducks and other fowls.

TABLE 34. Per capita availability of poultry meat, 1985-90.

	1985	1986 (Proj)	1990 (Proj)
Population (mill)	748	760	850
Poultry meat output (mill kg)	180	202	270
Per capita availability (gms/year)	240	265	315

TABLE 35. Estimated supply of improved layers and broilers in 1985.

	million
Hybrid layers from organized hatcheries in private sector	42 million
Hybrid layers from government and other hatcheries	10 million
Improved crossbred layers	10 million
Broilers from all sources	75 million
Total	137 million

TABLE 36. Estimated egg production from different categories of poultry in 1985.

52 million hybrid layers @ 225 eggs/bird	11,700 million eggs
10 million crossbred layers @ 120 eggs/bird	1,200 million eggs
20 million desi (indigenous) hens @ 60 eggs/bird	1,200 million eggs
Total	14,100 million eggs

TABLE 37. Estimated feed requirements in 1985.

52 million hybrid layers @ 40 kg/bird/year	2,080 million kg
26 million growers @ 7.5 kg/grower/year	195 million kg
10 million crossbred layers @ 20 kg/bird/year*	200 million kg
5 million crossbred growers @ 10 kg/grower	50 million kg
75 million broilers @ 2.4 kg/broiler	180 million kg
40 million cockerels @ 2 kg/bird	80 million kg
2 million GP/Parent stock, breeding stock @ 50 kg/bird	100 million kg
	2,885 million kg
5% for mortality, culling, etc	144 million kg
Total or say	3,029 million kg 3.0 million tonnes

*Takes intc account only that portion of feed which is provided; the portion that the bird scrounges is not included.

TABLE 38. Estimated distribution of improved layers in major pockets of poultry in 1985.

thousand

NORTHERN REGION	
Punjab (9,600)	
Ludhiana-Sanehwal-Jagraon-Moga-Jandiali-Patiala-Rajpura	4,000
Bhatinda-Faridkot-Kotkapura-Sangrur-Barnala	1,200
Amritsar-Tarn Taran-Patti	1,000
Gurdaspur-Batala-Pathankot	1,200
Jalandhar-Dasuya-Hoshiarpur	1,000
Delhi (700)	
Haryana (2,300)	
Gurgaon-Badshahpur-Rewari	800
Karnal-Panipat-Sonepat	450
Jagadhari-Yamunanagar-Ambala	400
Rohtak-Mandi Dabwali-Hissar	100
Rajasthan (1,000)	
Alwar-Ajmer-Jaipur	500
Hanumangarh-Bikaner	100
Udaipur-Jodhpur	100
Uttar Pradesh (1,200)	
Meerut-Ghaziabad	300
Gorakhpur	200
Lucknow-Kanpur	100
Varanasi-Faridabad-Allahabad	200
Dehradun	50
Jammu & Kashmir (500)	
Jammu	250
WESTERN REGION	
Maharashtra (5,500)	
Bombay-Panvel-Alibag-Thane	800
Nasik	600
Pune-Vadgaon-Talegaon	1,100
Sangli-Miraj-Kolhapur	600
Satara Kole-Kolewadi	300
Gujarat (2,200)	
Surat	450
Valsad-Bilimora	350
Kheda	450
Vadodara	300
Ahmedabad	200
Goa (300)	
Usgaon-Verna-Margaon	300
SOUTHERN REGION	
Andhra Pradesh (14,000)	
Hyderabad-Secunderabad	4,200
Krishna Dist:Gudivada-Gudlavalleru-Zamigolvepalli	4,000
Chittoor-Madanapalli-Nellore-Tirupati	2,000
Visakhapatnam-West Godavari	1,000
Warangal-Karimnagar-Nizamabad-Nalgonda-Khammam	1,000
Mahabubnagar:Palem-Khanpur	800
Karnataka (5,000)	
Bangalore-Banargatta-Devanahalli	1,400
Mysore-Mandya	500
Mangalore	300
Dharwar-Hubli-Bellary	1,000
Tamil Nadu (6,000)	
Namakkal-Salem-Rasipuram-Thiruchengode-Sangagiry	3,500
Erode-Perundurai-Dharavaram	850
Madras-Chinglepet-Arcot	350
Coimbatore-Palladam-Tirupur	500
Nagercoil-Kanyakumari-Rajapalayam	350
Dharmapuri	100
Kerala (300)	
Ernakulam	100
Trivandrum	50
EASTERN & CENTRAL REGIONS	
West Bengal (3,500)	
Calcutta Area	1,000
24 Parganas:Habra-Ashokragar-Kalyangarh,Diamond-Harbour-Usthi-Falta, Baruipur, Malancha,Malickpur, Narendrapur;	
Calcutta:Kidderpore-Tollygunge-Garia;	
Hooghly:Chinsurah-Bally-Srerampur-Bhadreshwar-Arambagh;	
Howrah:Andul-Uluberia	
Midnapore:Garbheta-Contai-Tamluk	1,000
Nadia:Ranaghat-Krishnagar-Kulgachi-Kalyani	200
Madhya Pradesh (2,000)	
Jabalpur	300
Raipur-Bhilai-Durg	350
Indore-Bhopal	100
Assam & NE States (500)	
Guwahati	30
Tinsukia	200
Bihar (350)	
Patna-Jamshedpur	200

TABLE 39. Estimated placement of commercial broilers in major pockets of poultry in 1985.

thousand/year

NORTHERN REGION	
(25,000)	
Punjab (11,000)	
Ludhiana-Patiala-Rajpura-Chandigarh	5,500
Amritsar-Patti	1,000
Jalandhar-Dasuya-Nawanshahr	3,000
Delhi (2,500)	
Haryana (7,500)	
Gurgaon	3,600
Karnal-Panipat-Sonepat	2,500
Jhajhar-Rohtak	400
Rajasthan (600)	
Alwar-Jaipur-Ajmer	400
Udaipur-Jodhpur	150
Uttar Pradesh (2,500)	
Noida-Ghaziabad-Meerut	900
Lucknow-Kanpur	500
Gorakhpur-Varanasi-Allahabad	500
Jammu & Kashmir (1,000)	
Jammu	400
Srinagar	600
WESTERN REGION	
(22,000)	
Maharashtra (17,000)	
Bombay-Panvel-Alibag-Thane	4,500
Nashik	6,000
Pune-Vadgaon-Talegaon	4,500
Gujarat (3,000)	
Vadodara	1,000
Ahmedabad	500
Goa (2,000)	
Usgaon-Verna-Margaon	900
SOUTHERN REGION	
(16,000)	
Andhra Pradesh (6,000)	
Ranga Reddy Dist	2,400
West Godavari (Vizag)	1,000
Mahabubnagar	350
Karnataka (5,000)	
Bangalore	2,500
Mysore-Mandya	1,000
Tamil Nadu (3,500)	
Madras-Chinglepet	2,400
Coimbatore	1,000
Kerala (1,500)	
Trivandrum-Trichur-Quilon	1,200
EASTERN & CENTRAL REGIONS	
(12,000)	
West Bengal (7,500)	
Calcutta Area	
24 Parganas: Habra-Diamond Harbour, Baruipur, Malancha-Malickpur, Narendrapur	4,000
Calcutta: Kidderpore-Tollygunge-Garia	2,000
Assam & NE States (2,000)	
Guwahati	550
Bihar (1,000)	
Patna-Ranchi-Jamshedpur	500
Crissa (600)	
Bhubaneswar-Cuttack	400
Madhya Pradesh (700)	
Indore	350
Raipur	200
Sikkim (200)	
Gangtok	150

TABLE 40. Statewise poultry population, 1982 (Provisional).

thousand

State/UT	Desi		Improved		Total	
	1982	1977	1982	1977	1982	1977
Andhra Pradesh	21,357	18,300	10,162	3,293	31,519	21,593
Assam	9,982	9,508	1,401	942	11,383	10,450
Bihar	14,636	13,781	353	295	14,989	14,076
Gujarat	2,764	2,845	803	581	3,567	3,426
Haryana	NA	NA	NA	NA	2,018	1,403
Himachal Pradesh	328	234	133	96	461	330
Jammu & Kashmir	1,862	1,862	178	178	2,040	2,040
Karnataka	9,647	8,829	2,427	862	12,074	9,691
Kerala	6,565	6,150	7,954	7,236	14,519	13,386
Madhya Pradesh	7,761	6,875	526	220	8,287	7,095
Maharashtra	16,067	NA	2,639	NA	18,706	18,751
Manipur	1,692	NA	1,144	NA	2,836	938
Meghalaya	1,361	953	58	120	1,419	1,073
Nagaland	766	631	174	84	940	715
Orissa	9,986	8,491	2,457	942	12,443	9,433
Punjab	NA	NA	NA	NA	5,540	5,540
Rajasthan	1,880	1,284	362	306	2,242	1,590
Sikkim	252	221	*	*	252	221
Tamil Nadu	13,107	12,960	5,176	1,387	18,283	14,347
Tripura	970	627	51	10	1,021	637
Uttar Pradesh	5,132	4,186	1,994	1,311	7,126	5,497
West Bengal	NA	NA	NA	NA	29,580	15,492
Union Territories						
Andaman & Nicobar	288	168	32	16	320	184
Arunachal Pradesh	NA	NA	NA	NA	764	764
Chandigarh	2	3	159	48	161	51
Dadra & Nagar Haveli	50	NA	6	NA	56	45
Delhi	11	102	207	115	218	217
Goa, Daman & Diu	385	336	231	78	616	414
Lakshadweep	21	23	13	4	34	27
Mizoram	605	1,061	86	67	691	1,128
Pondicherry	133	130	32	17	165	147
All India	1,26,610	99,560	38,758	18,208	2,04,270	1,60,701

* Included under Desi.

NA Not Available.

The poultry population for 1977 in respect of Jammu & Kashmir, Punjab and Arunachal Pradesh have been repeated for purposes of computing poultry population for 1982.

Source: 13th All India Livestock Census, 1982 and State Departments of Animal Husbandry.

TABLE 41. Annual table egg production statewise -- 1984-85, 1985-86 and targets for 1986-87 and 1989-90.

million

State/UT	1984-85 Sixth Plan End Achievement	1985-86 Anticipated Achievement	1986-87 Target	1989-90 Seventh Plan End Target
Andhra Pradesh	2,500.00	2,700.00	2,900.00	3,600.00
Assam	349.00	369.00	408.00	477.00
Bihar	1,000.00	1,100.00	1,180.00	1,470.00
Gujarat	240.00	250.00	260.00	348.00
Haryana	220.00	225.00	230.00	275.00
Himachal Pradesh	36.00	36.00	39.00	38.00
Jammu & Kashmir	215.00	228.00	250.00	345.00
Karnataka	880.00	894.00	920.00	1,100.00
Kerala	1,310.00	1,400.00	1,510.00	1,850.00
Madhya Pradesh	700.00	740.00	780.00	1,000.00
Maharashtra	1,428.00	1,500.00	1,525.00	1,950.00
Manipur	50.00	54.00	58.00	63.00
Meghalaya	40.00	42.00	45.00	52.00
Nagaland	18.00	19.00	19.00	24.00
Orissa	373.00	376.00	400.00	548.00
Punjab	825.00	950.00	1,075.00	1,460.00
Rajasthan	160.00	170.00	185.00	235.00
Sikkim	4.00	5.00	5.00	6.00
Tamil Nadu	1,062.00	1,222.00	1,320.00	2,000.00
Tripura	25.00	27.00	29.00	42.00
Uttar Pradesh	357.00	387.00	400.00	524.00
West Bengal	1,515.00	1,656.00	1,780.00	2,230.00
Union Territories				
Andaman & Nicobar	10.00	12.00	13.00	14.00
Arunachal Pradesh	25.00	26.00	28.00	35.00
Chandigarh	27.00	29.00	32.00	41.00
Dadra & Nagar Haveli	3.00	3.00	3.50	4.00
Delhi	67.00	68.00	72.00	90.00
Goa, Daman & Diu	16.00	17.00	19.00	25.00
Lakshadweep	1.25	1.45	1.60	2.50
Mizoram	12.70	12.90	13.00	13.50
Pondicherry	6.00	8.00	9.00	13.00
All India	13,475.95	14,526.35	15,507.10	19,874.00

Source: Based on data from the Planning Commission, Government of India, and other estimates.

TABLE 42. Number of hatcheries in India in 1985, statewise.

State	No of Hatcheries		
	Private	Govt	Total
Andhra Pradesh	22	1	23
Assam	2	10	12
Bihar	4	5	9
Gujarat	5	5	10
Haryana	13	5	18
Himachal Pradesh	4	11	15
Jammu & Kashmir	5	3	8
Karnataka	11	13	24
Kerala	6	10	16
Madhya Pradesh	5	11	16
Maharashtra	9	6	15
Manipur	-	3	3
Meghalaya	-	5	5
Nagaland	-	3	3
Orissa	3	9	12
Punjab	17	5	22
Rajasthan	6	6	12
Sikkim	-	2	2
Tamil Nadu	14	8	22
Tripura	-	1	1
Uttar Pradesh	7	32	39
West Bengal	13	12	25
Union Territories			
Andaman & Nicobar	1	1	2
Arunachal Pradesh	-	1	1
Chandigarh	5	1	6
Delhi	5	1	6
Goa, Daman & Diu	1	1	2
Mizoram	-	1	1
Pondicherry	-	1	1
All-India	158	173	331

TABLE 43. Estimated parent stock in production in 1985, statewise.

	Layer Parent	Broiler Parent
Andhra Pradesh	2,00,000	1,70,000
Assam & NE States	10,000	5,000
Bihar	8,000	18,000
Goa	5,000	10,000
Gujarat	32,000	25,000
Haryana & Delhi	2,25,000	2,00,000
Himachal Pradesh	25,000	9,000
Jammu & Kashmir	5,000	16,000
Karnataka	1,05,000	1,00,000
Kerala	1,000	10,000
Madhya Pradesh	30,000	12,000
Maharashtra	1,65,000	1,50,000
Orissa	3,000	5,000
Punjab	1,10,000	1,20,000
Rajasthan	18,000	12,000
Tamil Nadu	1,05,000	55,000
Uttar Pradesh	4,000	35,000
West Bengal	55,000	90,000
	11,06,000	10,42,000

Note: In a number of states, the parent stock in production is also supplied to adjoining areas.

TABLE 44. Duck population and egg prcduction in selected states, 1984.

million

State	Duck Population		Annual Egg Production
	1972	1984	1984
Andhra Pradesh	0.3	0.51	95.00
Assam	2.4	2.88	NA
Bihar	0.3	0.69	46.13
Kerala	0.3	0.53	NA
Manipur	0.03	0.19	NA
Meghalaya	0.03	0.06	NA
Orissa	0.3	0.32	NA
Tamil Nadu	0.5	0.45	NA
Tripura	0.07	0.22	6.00
West Bengal	4.2	8.40	304.66

NA: Not Available
Source: Eleventh All India Livestock Census 1972 (Final) & State Departments of Animal Husbandry.

TABLE 45. Wholesale prices of broilers and culls in Delhi, 1979-85.

Rs per 20 pieces

	Broilers (Approx 0.9-1 kg live weight)			Culls (Approx 1.50-1.75 kg live weight)		
	High	Low	Average	High	Low	Average
1979	275 (Dec)	110 (June)	187	280 (Oct)	165 (Jan)	227
1981	330 (Oct)	130 (May)	212	400 (Oct)	170 (Feb)	260
1983	460 (Nov)	170 (June)	295	460 (Nov)	200 (Feb)	295
1985						
Jan	330	280	300	380	280	330
Feb	-	-	-	-	-	-
Mar	370	290	330	340	300	325
Apr	340	300	310	360	300	340
May	310	190	240	340	300	330
June	280	225	260	380	330	360
July	260	320	290	400	340	370
Aug	360	250	300	460	380	410
Sept	440	340	400	450	380	430
Oct	420	340	380	470	400	440
Nov	440	350	400	450	420	440
Dec	440	330	380	450	410	430

Source: (i) Iqbal & Co; (ii) Samman Fayaz; (iii) Janata Mandi.

TABLE 46. Wholesale prices of ungraded eggs in four metropolitan cities during 1975-1985.

Rs/100

Year	Bombay			Delhi			Madras			Calcutta		
	High	Low	Average	High	Low	Average	High	Low	Average	High	Low	Average
1975	435	262	355	410	242	328	435	360	389	480	330	387
1976	443	256	345	420	239	332	415	316	375	470	330	409
1977	443	260	360	448	276	362	420	285	352	480	350	432
1978	472	250	362	468	236	346	422	320	349	550	375	462
1979	492	255	362	437	288	350	386	213	328	510	392	461
1980	517	220	370	485	228	369	410	277	337	522	410	475
1981	592	255	407	490	302	398	400	307	360	565	426	505
1982	594	276	433	516	375	448	430	350	384	606	450	545
1983	680	287	484	620	355	481	510	345	415	700	460	593
1984	687	230	487	606	355	497	510	335	423	750	467	641
1985												
Jan	730	500	632	640	610	630	460	460	460	730	700	717
Feb	550	480	515	580	420	472	460	310	365	730	690	717
Mar	450	250	300	460	400	440	460	410	422	550	520	530
Apr	250	250	250	460	450	457	410	310	360	580	480	530
May	250	250	250	450	430	435	410	310	370	650	520	578
Jun	550	250	462	500	480	492	410	360	385	600	530	582
Jul	600	600	600	540	540	540	410	410	410	780	780	780
Aug	590	470	536	570	520	544	410	410	410	850	730	774
Sep	480	410	432	540	510	522	410	410	410	800	720	755
Oct	600	470	510	520	480	490	410	310	347	840	760	815
Nov	760	680	732	560	540	550	510	460	485	840	800	810

Source: Bulletin of Agricultural Prices, Directorate of Economics & Statistics, Ministry of Agriculture & Irrigation.

TABLE 47. Price trends of major feed ingredients in Bombay, 1981-85.

Rs/tonne

Ingredient	1981	1982	1983	1984	1985				
					Jan	Apr	July	Oct	Dec
Maize	1608	1645	1900	1535	1565	1770	2400	2000	2200
Groundnut Expeller (54%)	1938	1747	-	1500	2340	2660	2500	2400	2400
Groundnut Extractions (45%)	1488	1344	2000	2200	1700	1900	1870	1850	2000
R B Extraction	557	668	1600	1735	500	610	725	725	875
Toasted Soyabean Meal(50%)	-	-	885	670	-	2075	2125	2050	2050
Fishmeal (42-45%)	-	-	3485	3500	3325	3100	3400	3700	3500

Source: "Poultry Times", Bombay.

TABLE 48. Prices of poultry feed for layers and broilers, 1975-85.

Rs/tonne

Year	LAYER MASH			BROILER MASH		
	High	Low	Average	High	Low	Average
1975	1353	1133	1274	1786	1546	1683
1976	1420	1120	1224	1790	1481	1608
1977	1515	1405	1462	1893	1837	1855
1978	1493	1426	1461	1933	1853	1880
1979	1653	1480	1551	2107	1933	2009
1980	1840	1653	1747	2347	2107	2227
1981	1973	1893	1933	2507	2400	2453
1982	2013	1947	1973	2547	2480	2507
1983	2333	1973	2100	2733	2520	2621
1984	2320	2185	2230	2746	2665	2700
1985	2430	2186	2322	2867	2614	2730

Source: Animal Feedingstuffs Div, Lipton India Limited, Bangalore.

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MANAGEMENT

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ADROIT—214/4R

Management Guide

This chapter highlights the more important points of scientific management techniques. The aim is to bring to attention those factors that may be overlooked and not to provide information on all and every aspect of poultry management production.

SCIENTIFIC poultry management uses the limited resources of a farmer to maximise returns from his farm. Efficient day-to-day management of farm and effective marketing of products are the main responsibilities of the farmer and when properly carried out will make his operations productive and profitable.

Take the best of birds. Give them the best of balanced feed. Protect them against common diseases with all due preventive vaccinations. Yet, their performance will vary widely — from very good to very bad. The result can be a farm that makes profit or loss. The critical factor that makes all the difference is MANAGEMENT.

A commercial poultry farm can be set up for the production of eggs or poultry meat (broilers). In the case of layers, chicks reach maturity after 20 weeks of age when they begin to lay eggs and continue to do so for the next one year. In broiler production, chicks are ready for market in six to eight weeks.

Proper attention should be paid to the chick from the day it is hatched. Any setback early in its life — chilling, malnutrition, disease, overcrowding and the like — will permanently damage its production capacity.

In the selection of chick, the key factor is quality and not cost. The low-yielding bird requires as much labour, effort and other inputs as the high-yielding. So, the purchase of cheap chicks is not a method of reducing the cost of production. This is also true in the selection of feed, which alone constitutes, on an average 80-85 per cent of the total cost of eggs/broilers.

The cost of feed and bird as well as prices of eggs/broilers are generally outside farmer's control, but the production potential of the bird depends largely on sound management practices. Given the same breed of bird and the quality of feed, the performance of the bird as judged by the production of eggs and weight gain in broilers is known to vary widely -- by as much as 40 per cent.

A mature bird of good stock lays in one year 14 kgs of eggs, numbering about 250 which is eight to nine times its bodyweight. Similarly, a good broiler in six to seven weeks attains a weight of 1.4 to 1.7 kgs, with feed conversion ratio (FCR) of 2.2 to 2.3.

The capital investment per bird in a layer farm averages Rs 80, while in a broiler farm, Rs 33 per broiler. The net profit as detailed in the respective financial statements given elsewhere in this section, amounts to Rs 1.50 per layer per month, while in the broiler farm, Rs 3.25 per broiler. In the case of newly established layer farm, the income starts generating after six months, and in case of broiler, after eight weeks.

Presently, the birds are reared under under two systems of housing: on deep litter and in cages. The latter are becoming increas-

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ingly popular for housing layers. Poultry houses are constructed with different types of flooring and roofing, ranging from kuchha to pucca (cemented) and includes for roofing, thatched, Mangalore tiles, stone slabs, asbestos roofing,etc.

For efficient management, a written programme of duties to be performed periodically is desirable. Repetitive tasks must be routinized: Every day in the week for refilling feeders after cleaning and also for brushing and cleaning the watering system; twice weekly for cleaning the poultry house and spraying with insecticides, another for a small green patch around the house, yet another two days for stirring the litter, etc. Other periodical operations -- such as vaccination, dusting, debeaking, culling — can be done in other two days. Egg collection and handling take the maximum time. Filler flats on a trolley can facilitate this task.

The efficiency of poultry farm operations, as in any other business, depends on maintaining proper records. It helps not only to improve farm efficiency, but also pinpoints troubles and their solutions. A daily record of egg production, bodyweight, feed and water consumption, mortality, income and expenditure is absolutely vital for profitable poultry-keeping. Separate records should be kept for each house. The production records should be periodically scrutinized to assess the performance and efficiency of the farming operations to locate weak points and effect improvements in management practices.

SPF Technology Comes to India

THE Avian SPF (Specific-Pathogen-Free) concept has made major contributions to the poultry industry all over the world. The SPF-eggs are produced by maintaining highly selective flocks under sterile atmosphere with positive pressure system and providing complex requisites. Such flocks are monitored by highly complex laboratory tests which involve latest technology. Basically, the eggs produced are free from Leukosis group of viruses and other range of pathogens which are vertically transmitted, that is, transmitted from hen to the eggs and to the chicks progeny. In short, if eggs are used from ordinary flocks, there can be disastrous situation of contamination in vaccines with various viral antigens and along with vaccine these can be transmitted to the vaccinated flocks.

SPF concept has thus provided the biological manufacturers with an embryo free of any one of the several embryo-transmitted agents which could be a contaminant in the vaccine produced. Today, there are a number of vaccines available commercially that would not been available if the SPF concept had not been developed. Among these are poultry vaccines for a range of deadly infections such as Marek's Disease, Ranikhet Disease (Newcastle Disease), Infectious Bronchitis, Gumboro, Fowl Pox and Avian Encephalomyelitis as well as viral vaccines as prophylactic against emerging avian diseases.

In India, Western Hatcheries Pvt Ltd, Pune, have entered into technical collaboration with SPAFAS Inc, USA, internationally reputed leaders in SPF technology. The SPF Division of Western Hatcheries, a member of Venkateshwara Hatcheries group, have set up its own SPF flocks reared under filtered air environment. Eggs from the flock are being utilized by the poultry vaccine laboratories. Besides, plans are also afoot to supply SPF eggs to other laboratories in the country.

Commercial availability of fertile SPF chicken eggs and chicks would be the main product line of the SPF Division equipped with the most sophisticated and well staffed laboratory for complex monitoring of SPF flocks for varieties of avian pathogens and antibodies. The continuous programme of research and implementation of complex testing procedures will be the same as that of SPAFAS, USA.

Economic and Technical Feasibility

IN assessing the economic and technical feasibility of a poultry farm project, the suitability or availability of the following should be looked into:

- location of poultry farm;
- land to construct poultry shed and other structures;
- assured water supply and electricity;
- supply of one-day old chicks and feed;
- experienced staff and labour for farm management;
- veterinary services to care for the birds; and,
- ancillary facilities for shed construction, well digging and installation of electrical and water fixture.

Income from poultry farming depends upon various factcrs. The more important of them include:

Capital Investment: It varies with the type and cost of building materials as well as the location of the farm and the rate of interest on capital investment.

Location: Nearness of the farm to the market and approach through pucca road. The temperature where the farm is to be located should not generally exceed 105°F (40°C).

Housing: Currently, birds are housed on deep litter or in cages. For brooding and growing of chicks, including raising of broilers, the deep litter system is commonly used. In the case of layers, the cage system is now gaining popularity on account of its advantages: Economy in space, low capital cost, ease of management with regard to disease prevention and control, definite feed saving, increased laying efficiency and labour saving and easy maintenance of birds.

Imputs: Quality and cost of day-old chicks (for eggs or poultry meat production) as well as of poultry feed.

Management: Efficient day-to-day farm management and monitoring of its key operations with the maintenance of proper records are vital for profitable poultry prcduction.

Replacement: To ensure an economic and continuous supply of eggs/brcilers, the replacement programme for the supply of day-old chicks should be planred in keeping with the local market demands.

Output: Total egg production in case of laying hens and weight attained at marketable age in case of table birds; mortality under efficient management condition.

Marketing: Market price of eggs, table birds, culled hens which the producer gets after paying for commission to wholesale agents, packing, forwarding, freight, breakage, sales tax, etc.

The economic and technical feasibility of a small, viable unit for layers and brcilers alongwith financial statements is presented in the following pages. The financial statement is followed by the performance of birds as reported in the Random Sample Tests and management pointers, listing important points of scientific management techniques.

Your Attention Please!

If you have an entry in the **Yearbook**, you may suggest the names of individuals/organizations who do not at present appear but whom you consider worthy to be included in the **Yearbook.** Please send us a postcard with names and addresses of any suitable persons organizations to whom we will be glad to send a form.

Editor & Publisher
Indian Poultry Industry Yearbook
A-25 Priyadarshini Vihar, Delhi 110092



FINANCIAL STATEMENT FOR SETTING UP OF A 2,500 LAYER FARM

Given in the following pages is a financial statement for setting up of a layer farm of 2,500 birds. Such a farm would provide an income of about Rs 3,500 per month, accruing mainly from the sale of 1,700 eggs per day. This project would call for a preparatory period of six months for planning, site selection and the construction of farm including provision for support services like water, electricity, etc. This will be followed by an operational period consisting of about six months of rearing and growing of the first batch of chicks from day-old to point of lay. During this period no income is generated. After pullets come into production, they lay eggs for one year after which the batch is liquidated. To ensure regular production of eggs every day, it is essential to plan the placement programme at the rate of 875 birds per batch. It would mean setting up one brooder-cum-grower house and three layer houses. The birds can be reared on deep litter or in cages.

The project will begin to generate profit in its third year. To plan the project on realistic basis, a monthly cash flow statement should be drawn up for 36 months, taking into account the fluctuating laying cycle of the bird, seasonal variations in egg prices and provide inflationary cushion in input prices of chick, feed, etc. Various assumptions made in the statement for the cost of input and the income generated should also be reflected in the cash flow statement.

The basic parameters assumed for the financial statement are listed below. Costs shown are average and may not be valid for any given place. Local prices of various inputs and outputs should be ascertained and used. The financial statement is followed by the performance of layers in Random Sample Tests and management pointers, listing important points of scientific management techniques.

ASSUMPTIONS

- Construction cost : Rs 18-40/sq ft
- Cost of day-old sexed chick : Rs 6.25/bird
- Price of feed : Rs 1,800-2,200/ tonne
- Feed consumption
  - Till 20 weeks : 7 kg/bird
  - During lay : 110 gms/bird/day
- Mortality
  - Upto point of lay : 5 per cent
  - During lay : 1 per cent/month
- Hen housed production : 250 eggs/bird/ annum
- Sale price of eggs : Rs 45/100 eggs
- Sale price of culls : Rs 16/bird
- Capital investment : Rs 80/bird
- Net profit: Rs 1.50/bird/month



FINANCIAL STATEMENT
FOR SETTING UP OF A 2,500 LAYER FARM
(DEEP LITTER SYSTEM)

CAPITAL INVESTMENT	Rs	Rs
Building:		
Poultry sheds consisting of brooder house and laying house (5,000 sq ft) @ Rs 25 per sq ft		1,25,000
Office-cum-Store of 200 sq ft @ Rs 50 per sq ft		10,000
Equipment:		
Brooders, feeders, waterers, etc @ Rs 5 per bird		12,500
Stock:		
Cost of rearing 2,500 chicks from one day old to point of lay (20 weeks):		
Cost of 2,625 sexed day-old chicks (5 per cent extra to compensate for depletion and culling) @ Rs 6.25 per bird	16,406	
Cost of feeding 2,625 chicks @ 7 kg per chick and feed cost @ Rs 1.80 per kg (the average number of chicks fed for the full period would be 2,550)	32,130	
Electricity, medicines, litter, labour, etc @ 15% of feed cost	4,819	53,355
		2,00,855

OPERATIONAL/RECURRING EXPENDITURE (During 12-month laying period)	
Cost of feeding 2,500 layers for one year @ 40 kg per bird @ Rs 1.80 per kg	1,80,000
Cost of litter, electricity, medicines, etc @ Rs 5 per bird	12,500
Cost of labour for 12 months @ Rs 300 per month	3,600
	1,96,100

FINANCIAL STATEMENT: LAYER FARM

INCOME	Rs	Rs	Rs
Sale of 6,25,000 eggs @ 45 paise per egg (egg production at the rate of 250 eggs per bird per year)			2,81,250
Sale of 87.5 tons of poultry manure (40 layers produce one ton of manure; so 2,500 layers, 62.5 tons; 1,000 chicks produce 10 tons of manure at one ton per 100 chicks) @ Rs 80 per ton			7,000
Sale of 1366 gunny bags @ Rs 5 per bag			6,830
Sale of 2,200 old birds @ Rs 16 per bird			35,200
			3,30,280
GROSS PROFIT			
Income			3,30,280
Expenditure:			
Operational/Recurring Expenditure		1,96,100	
Expenditure on replacement flock: Cost of rearing 1,000 layers from day-old to point of lay (20 weeks)		53,355	2,49,455
		Gross Profit:	80,825
NET PROFIT			
Gross Profit			80,825
Depreciation* on Building @ 10%	13,500		
Equipment @ 15%	1,875	15,375	
Interest on 75% of capital @ 12%		18,077	
Insurance @ 25 paise/bird		625	34,077
		Net Profit**	46,748

NET PROFIT** : About Rs 1.56 or say Rs 1.50 per layer per month. The land, lease, rental, if any payable, will have to be deducted from the net profits. So, also income tax, sales tax payable, if any.

---

* Depreciation may not be considered as an item of expenditure if the unit is established with borrowed capital. It can then be treated as part of instalment premium (repayment). The interest burden would also be reduced because the borrower would normally get 75 per cent of the total capital required for the project. Also, as the repayments are made, the interest liability will decrease in direct proportion.

** Net profit can vary depending on the mode of marketing. It could go up further if the farmer himself does the retailing of over 50 per cent of the eggs.

TABLE 49. Summary of the results of the top first three entries in each of the Random Sample Laying Tests at Hessarghatta, Bangalore (1984-85, 15th Test), Bhubaneswar (1984-85, 8th Test), and Bombay (1984-85, 7th Test), conducted by the Government of India.

Name of entrant	Breed or class entered	Hen-housed egg-production	Hen-day egg production	Feed used per dozen eggs (kg)	Feed consumed per day per bird (gm)	Average egg wt (gm)	Margin between feed cost & sale of eggs, etc (Rs)
RSLT, BANGALORE							
The Director Central Poultry Breeding Farm Bhubaneswar	Cross Bred Rhodowhite	244.22	247.77	1.88	109	51.42	(+) 34.17
The State Poultry Farm Govt of Karnataka Hessarghatta, Bangalore	WL (Mychix)	246.88	256.50	1.90	111	52.07	(+) 34.12
The Senior Scientist All India Coordinated Research Project on Poultry for Eggs Rajendranagar Hyderabad	WL SX	243.02	248.36	1.92	109	51.11	(+) 32.95
RSLT, BHUBANESWAR							
The Director Central Poultry Breeding Farm Bhubaneswar	BX3 (WLH) Strain Cross	236.29	239.57	2.05	113	52.73	(+) 52.98
The Director Central Poultry Breeding Farm Bhubaneswar	Rhodowhite (Breed Cross)	212.03	242.64	2.09	117	51.88	(+) 46.97
The Director Central Poultry Breeding Farm Hessarghatta, Bangalore	Sl. No. 1 WLH (Pure Strain)	223.80	229.52	2.06	108	48.04	(+) 46.60

TABLE 49. Continued.

Name of entrant	Hen Housed egg production	Hen day egg production	Feed Consumed 21-72 weeks kgs	Feed Consumption per bird/day	Average weight of all eggs gms.	Surplus per Layer 0-72 weeks Rs
RSLT, BOMBAY						
The Project Officer Intensive Poultry Development Block Makarba, Ahmedabad	243	246	44.10	121	50	14.67
The Prof & Head Department of Agricultural Science Punjab Agricultural University Ludhiana	244	250	44.70	123	53	14.41
The Senior Scientist All India Coordinated Research Project on Poultry for Eggs Rajendranagar Hyderabad	243	249	45.00	124	52	13.97

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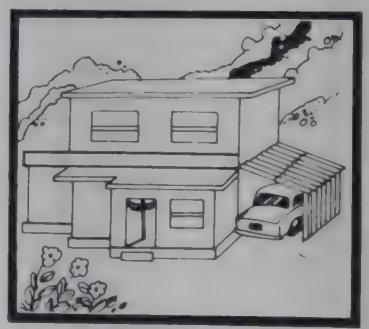
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FINANCIAL STATEMENT FOR SETTING UP OF A BROILER FARM TO PRODUCE 4,000 BROILERS PER EIGHT-WEEK CYCLE OF WEEKLY ROTATION OF 500 BROILERS

Given in the following pages is a financial statement for setting up of a broiler farm with a capacity of 4,000 broilers. Such a farm would provide income of Rs 5,400 per month from the sale of 20,000 broilers in the first year and Rs 6,500 per month from the annual sale of 24,000 broilers in the second and subsequent years. The project would call for a preparatory period of six months for planning, site selection and the construction of farm, including provision for support services like water, electricity, etc. This would be followed by an operational period consisting of eight weeks when the first batch of chicks is ready for the market. During this period no income is generated. At the end of eight weeks, the farm will have birds of variable age groups from one to eight weeks. So, in the capital investment shown below, an average feed consumption of 2 kgs per bird has been into account for the purpose of capitalising the initial cost of the project. To ensure a regular production of broilers every week, a replacement programme of 500 broilers per week has been proposed.

The dressing percentage of broiler varies from region to region. For example, in the northern region it is comparatively low (60-65 per cent) due to the fact that consumers prefer the dressed bird without skin, head, legs, gizzard and liver. In other regions, these parts are included and so, the dressing percentage is high, amounting to 75-80. So, to get 1 kg dressed weight, the bird has to be raised to 1.6 kg liveweight in north India, versus 1.25 kg in other parts of the country.

The basic parameters assumed for the financial statement are listed below. Costs shown are average and may not to be valid for any given place. Local prices of various inputs and outputs should be ascertained and used. The financial statement is followed by the performance of broilers in the Random Sample Tests and management pointers, listing important points of scientific management techniques.

ASSUMPTIONS

- Construction cost : Rs 18-40/sq ft
- Cost of day-old chick : Rs 4.75/bird
- Price of feed : Rs 2,400-2,600/ tonne
- Feed consumption : 3.38 kg/bird
- Mortality : 5 per cent
- Weight at 6-7 weeks : Rs 1.4-1.7 kg
- Sale price of broiler : Rs 12/kg live wt
- Feed conversion ratio (FCR) : 2.2-2.3
- Capital investment : Rs 33/broiler
- Net profit : Rs 3.25/broiler



FINANCIAL STATEMENT FOR SETTING UP OF A BROILER FARM TO PRODUCE 4,000 BROILERS PER EIGHT-WEEK CYCLE OF WEEKLY ROTATION OF 500 BROILERS

(The production of broilers will be on continuing basis with five cycles in the first year, producing 20,000 broilers and six cycles in the subsequent years, producing 24,000 broilers each year. In the Capital Investment below, the feed quantity shown is based on the assumption that at the end of the first eight-week cycle, the birds will be of variable age groups ranging from one to eight weeks and an average feed consumption of 2 kg per bird has been taken into consideration for the purpose of capitalizing the initial cost of the project.)

CAPITAL INVESTMENT	Rs	Rs
Buildings:		
Floor Area 3,000 sq ft @ Rs 25 per sq ft		75,000
Equipment @ Rs 3 per bird		12,000
Stock:		
Cost of raising the first crop of 4,200 broilers:		
Cost of 4,200 broiler chicks @ Rs 4.75/chick	19,950	
Cost of 8,000 kgs of feed @ Rs 2.50 per kg	20,000	
Electricity, medicines, litter, labour, etc @ Rs 1.50 per bird	6,000	45,950
		1,32,950

OPERATIONAL/RECURRING EXPENDITURE (For five cycles)	
Cost of 21,000 broiler chicks (5% extra for mortality & culling) @ Rs 4.75 per chick	99,750
Cost of feeding 20,500 chicks (average number of chicks fed for the full period after compensating for mortality and culling) @ 3.8 kg per bird (total feed: 779 qtls) and feed cost @ Rs 250 per quintal	1,94,750
Cost of litter, medicines, electricity, labour charges, @ 15% of feed cost	29,212
	3,23,712

FINANCIAL STATEMENT: BROILER FARM

	Rs	Rs	Rs
INCOME			
Sale of 20,000* broilers, each weighing on an average 1.7 kg, @ Rs 12 per kg			4,08,000
Sale of 600 gunny bags @ Rs 5 per bag			3,000
Sale of 45 tons of manure @ Rs 80 per ton			3,600
			4,14,600
GROSS PROFIT			
Income			4,14,600
Expenditure			3,23,712
			90,888
NET PROFIT**			
Gross Profit			90,888
Depreciation*** on: Building @ 10%	7,500		
Equipment @ 15%	1,800	9,300	
Interest on 75% capital @ 12%		11,965	
Insurance @ 25 paise per chick		5,000	26,265
		Net Profit:	64,623

NET PROFIT: Amounts to Rs 3.23 or say Rs 3.25 per broiler. The land lease, rent payable will also have to be deducted from the gross profits. So, also sales tax, if any, on the broilers.

---

* In the second and subsequent years, the annual output of broilers would number 24,000. The duration of broiler cycle can vary from 6 to 12 weeks depending on the demand of the type of broilers in the local market.

** Net profit can vary depending on the mode of marketing.

*** Depreciation may not be considered as an item of expenditure if the unit is established with borrowed capital. It can then be treated as part of instalment premium.

Information Databank

You will be surprised at the many, varied ways in which this *Yearbook* could be useful to you. For example, the standard guidelines for the appraisal of schemes as well as marketing potentials in different areas published in the *Yearbook* Also, classified lists of livestock, feed, equipment and similar input suppliers to whom banks prefer to disburse directly the amount due to them on behalf of loanees These and other features would make this reference compendium useful to your Technical Officers Additional copies of the *Yearbook* can be had directly from the publishers.

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TABLE 50. Summary of the performances of the first three top entries in the Random Sample Tests (RST) for Broilers at Hessarghatta, Bangalore (1985, 14th Test), Bombay (1984-85, 7th Test), and Bhubaneswar (1983-84, 4th Test), conducted by the Government of India.

Name of entrant	Breed/ Brand Name	Total feed consumption per chick up to 6 wks kg	Total feed consumption per chick up to 8 wks kg	Average live weight per chick at the end of 6 wks kg	Average live weight per chick at the end of 8 wks kg	Feed consumed per kg of gain in live weight 6 wks kg	Feed consumed per kg of gain in live weight 8 wks kg	Difference between expenditure and receipts 6 wks Rs	Difference between expenditure and receipts 8 wks Rs
RST, BANGALORE									
Kasila Farms Pvt Ltd 902, Paigah Plaza 5-9-30/5, Basheerbagh Hyderabad	"Hubchix"	3.376	5.658	1.610	2.241	2.097	2.525	11.65	14.03
Pioneer Hatcheries 7/67, Pongalur Coimbatore Dist, TN	"Hubchix"	3.572	6.136	1.605	2.165	2.226	2.834	11.05	11.79
Koteshwara Hatcheries Pvt Ltd Cantonment Bellary, Karnataka	"Hybro"	3.424	5.895	1.503	2.078	2.278	2.837	10.12	11.29
RST, BOMBAY									
Pioneer Hatcheries 7/67, Pongalur Coimbatore Dist, TN	"Hubchix"	3.187	5.447	1.540	2.150	2.1	2.5	5.40	8.02
Venkateshwara Hatcheries Private Limited 13/6 Milestone, Panshet Rd PO Girinagar Pune	Vencob	3.064	5.299	1.400	2.045	2.2	2.6	3.99	7.12
Punjab Agricultural University Ludhiana	IBLO-80	2.946	5.210	1.275	1.857	2.3	2.8	3.57	5.81

TABLE 30. Continued.

Name of entrant	Breed/ Brand Name	Total feed consumption per chick up to 6 wks kg	Total feed consumption per chick up to 8 wks kg	Average live weight per chick at the end of 6 wks kg	Average live weight per chick at the end of 8 wks kg	Feed consumed per kg of gain in live weight 6 wks kg	Feed consumed per kg of gain in live weight 8 wks kg	Dressing percentage of ready to cook birds
RST, BHUBANESWAR								
All India Coordinated Research Project on Poultry Breeding for Meat Dept of Animal Science Punjab Agricultural University Ludhiana	IBL-80	2.793	4.547	1.272	1.745	2.265	2.665	74.24
The Director Central Poultry Breeding Farm Chandigarh	Ent. 1	2.449	3.962	1.048	1.432	2.432	2.848	71.60
The Director Central Poultry Breeding Farm Chandigarh	Ent. 2	2.312	3.653	0.977	1.338	2.470	2.816	71.29

CENTRAL POULTRY BREEDING FARM

(Government of India)

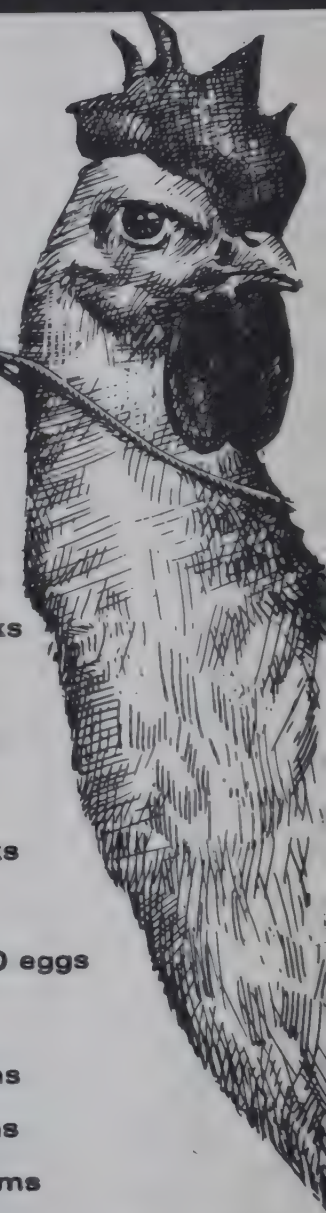
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PRODUCTION POTENTIAL

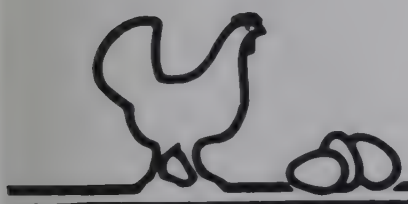
1. Age at 50% production (Sexual maturity)	22 weeks
2. No. of weeks required to reach peak production 85-90% (Hen-Housed)	6 weeks
3. Maintenance of high prOduction upto 75% (Hen-Housed)	18 weeks
4. Annual egg production (Hen-Housed)	255-260 eggs
5. Average egg weight at	
(i) 35 weeks	50 grams
(ii) 55 weeks	54 grams
6. Average daily feed consumption during laying period	110 grams

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Breeding is the World Phenomenon. BH-78 is the profit Phenomenon.

Management Pointers

Sound management practices are essential for profitable poultry-keeping. Important points of scientific management techniques are given below to help poultry farmers make their operations efficient and productive.



LAYER HOUSE

HOUSING

Two types of houses: (a) Rearing house for starter and grower chicks between the age group of 0 to 20 weeks; and (b) Layer house for egg laying birds beyond 20 weeks. For round-the-year egg production, adopt 1:3 housing system — three laying houses for one rearing house. Rearing house should be 45 metres (150 ft) away from the layer house. Average distance between layer houses: 10.5 metres (35 ft).

LIGHTING

Birds need a certain level of light intensity for 14 to 16 hours per day to achieve maximum egg production. One watt per 3 sq ft (1-1½ birds) is recommended. Bulbs of 25 to 40 watts should be firmly attached 7 ft above the floor and 8-12 ft apart. Reflectors should be used to direct all light downward and be cleaned regularly to remove dust from bulbs.

VENTILATION

Height of side walls: Bottom one-third closed and the remaining two-third open, covered with hexagonal wire netting. End walls: Solid with doors on both sides. Provide a wire netted door to keep sparrows, rodents, etc out.

TEMPERATURE

Chickens prefer a temperature of about 65°F and are most comfortable at temperature of from 55° to 75°F. Above 75°F the birds are under heat stress. Below 65°-75°F range, feed consumption will increase to uneconomical levels; above it consumption may be so low as to affect production.

INSULATION

Roof — Weather-proof with proper slope (fall of 1.2 metres (4 ft) in 3 metres (10 ft) for tile, asbestos roof). Roof hang (extended beyond the side walls by at least a metre) ensures keeping birds and litter dry in monsoon and keeps the house cool in summer.

FLOORS

Provide about 0.18 sq metre (2 sq ft) of floor space per bird. At least 30 cms (12 inches) above the surrounding ground level to prevent flooding and water seepage. Damp floors bring in disease. Concrete floor is recommended.

FEEDERS

Two feeder designs — circular drum type hanging ones and trough types on supporting legs on litter, designed to avoid feed wastage. Feeders must be fitted with anti-perching device. Allow 10 cms (4 inches) per bird for troughs or 5 tube feeders per 100 birds. Open troughs should not be filled too full. Provide 2.5-3 metres (8-9 ft) of feeder space for 100 chicks up to two weeks, 4.5 metres (15 ft) at four weeks, and 6 metres (20 ft) at 8-10 weeks. Count both sides of the trough. It is recommended that all feeders be within 4.5 metres (15 ft) of a waterer.

WATERERS

Waterers must be placed in area isolated from the litter and over removable platform with sand. Anti-perching device on waterers must be provided. When choosing a drinker look for ease of servicing and cleaning and refill rate. Frequently check valves of automatic drinker since faults can lead to overflow or shortage. Provide sufficient space between waterers to avoid overcrowding.

NESTS

If community nests are used, they should be approximately 0.6 metre (2 ft) deep and 1.5 metre (5 ft) in length for each 50 to 60 pullets. Sub-dividing these into compartments 30 cms (12 inches) to 37.5 cms (15 inches) wide helps to prevent broodiness and keeps egg clean.

LITTER

Provide 7.5 cms (3 inches) layer of such litter materials as saw dust, paddy husk, maize, cobs, groundnut hulls, cane bagasse or rice/wheat straw. The best test of built-up litter: when run through the hand, it should be dry, friable and free from obnoxious odour. Caked litter is a bad sign. To dry caked litter, lime it so that heat is built up. In pens where litter is put during summer, the depth should not be more than 5-7.5 cms (2-3 inches). Reuse of old litter is not recommended.

HEALTH COVER

Vaccination, sanitation and isolation measures are critical for effective disease prevention. Any prolonged use of drugs, particularly antibiotics, as preventive may lead to reduced efficiency for growth stimulation and for disease control. Special attention should be given to the problems of external and internal parasites and an effective control programme followed.

VACCINATION

It is assumed that the day-old chicks are vaccinated against Marek's Disease at the hatchery. Chicks should be vaccinated against Ranikhet Disease unless already done at the hatchery. Give the first dose with RD vaccine ('F' Strain/LaSota) at 5-7 days of age through intraocular/intranasal route; the second dose should be administered at 4-5 weeks of age through intranasal route; the third dose should be followed with R_2B vaccine (subcutanecusly) at 7-8 weeks; A booster dose of R_2B vaccine should be administered around 17-18 weeks. Fowl Pox vaccine should be given at 6-8 weeks and repeated at 16 weeks. A gap of one to two weeks is recommended

between Ranikhet and fowl pox vaccinations, although not essential, for minimizing stress. Vaccination should be done in the cool hours of early morning or at night.

CANNIBALISM & DEBEAKING

It is recommended that all layers be debeaked to control feather-picking, cannibalism or bullying. It is usually carried out by means of electro-cautery. It is important to remove only one-third of the upper beak, taking care to depress the tongue. Done at 10-14 days, it should be repeated in about six months' time. If done at 14-16 weeks, no more debeaking is necessary. Debeaking should never be done with a pen-knife or the like. Feed and water depth in hoppers and troughs is more critical when layers are debeaked.

SANITATION

Totally depopulate the poultry house (all in, all out). Take out all equipment. Clean and disinfect them and leave it exposed to sun. Unused feed should not be held over. Old litter should be hauled to a remote part of the farm. Never pile or spread old litter near poultry houses because it is a reservoir of infection. Clean up spilled litter and other debris from doorways, windows and around the house. Wash ceiling walls and floors with a generous volume of water. Apply detergent to wash water. Then wash with clean water. Apply germicide while building is still wet. Close building tightly, then discharge fumigant. Lock the house and let stand 20 to 24 hours. Air out thoroughly before entering. Apply solution or dust of an insecticide to the floors. For added precaution, a light covering of germicide in light oil can be used on the floor, lower walls and post bases. Put in new litter. Install the sanitized equipment. Foot baths should be used at each entrance. Rest the building for three weeks before bringing in new poultry.

ISOLATION

Poultry should be segregated according to age, species and class for best performance and health control. Space houses 30 metres (100 ft) or more apart. Locate the house at 300 metres (1,000 ft) from all roads and buildings. Fence around the house. Screen out free flying birds and keep all pet animals out. Deliver new birds in sanitized boxes or crates. Servicemen should wear non-contaminted clothing and boots. Dispose of sick or dead birds preferably by incineration. Maintain vermin control programme. New litter should be delivered in clean trucks.

STRESS

Birds are always under stress of one kind or another in the modern poultry operation, but stresses should not be allowed to accumulate. Wherever possible stresses should be preceded and followed by treatment to give "nature" full assistance in restoring or adjusting the bird to normal health and function. Wherever possible, the causes of stress should be corrected, particularly those due to faulty management.

MANAGEMENT — GENERAL

The first step in good layer management is to plan for a smooth and stress-free intake of ready-to-lay birds to be housed. When moving them, stress is inevitable, but it can be minimized thus: House birds between 16 and 18 weeks of age; Handle and transport pullets with proper care and consideration; Have feed and water immediately available; Provide a greater depth of feed at first;

Deworm litter-reared pullets; Provide brighter lights for the first few days; and, Reduce stress effects and encourage feed consumption by using a high vitamin/mineral boost for 3-4 days, temporary supplementary feeds of pellets, and wetting feed with water and/or molasses.

Modern methods call for an increase in stocking density to give a better return on capital even with reduced performance. Any increase in stocking must be accompanied by additional ventilation, feed and water space and by improved management. Greater stocking density and closer proximity of birds increase the risk of spread of diseases, particularly the respiratory types.

The daily chores in a laying house are:

Water: Check its supply in the morning. Examine the waterers frequently throughout the day. Each water must be cleaned daily.
Feed: Check feeders. Feeders must never be allowed to be empty, but neither be over-filled to result in wastage.
Eggs: Eggs should be collected regularly at least four times a day and stored at a temperature of 55° to 60°F and a relative humidity of 65 to 75%. Keep a record of eggs collected.

Other Daily Tasks: Dispose of dead birds, preferably by burning them; Clear the house of broody hens; Clean the nest boxes — put in clean straw or litter when needed; Remove wet litter around the waterers; Adjust the height of feed hoppers; Top up the limestone grit hoppers; Replenish foot bath or pad at the entrance of the house with disinfectant; Look at the birds for signs of ill-health; Check lighting and ventilation; Check litter in the poultry house.

OBSERVATION OF STOCK

The poultry farmer should know the signs of chick's well-being. Likewise he should be able to recognize trouble once it strikes, diagnose its cause, and institute corrective measures, thereby holding mortality and economic losses to a minimum. He must know what to look for the following when troubleshooting:

- Are the chicks spread out over the floor area and at the feeding and watering equipment? If so, that's good.
- Are they crowded along the walls? If so, they are likely to be feeling hot.
- Are they panting and gasping? If so, they may be too hot or have a disease problem, probably respiratory infection or pullorum disease.
- Are they huddling and piling in small groups or in the corner? If so, they are feeling too cold.
- Are feeders and waterers crowded? If so, there is not enough space.
- Is the litter packed and wet? If so, improve the ventilation and/or put down new litter.
- Are ammonia odours strong? If so, improve ventilation and/or change litter.
- Are shanks and beak pale and feathers ruffled? If so, chronic coccidiosis.
- Also, bloody droppings? If so, ceacal coccidiosis.
- Are they lying on side, trembling? If so, suspect epidemic tremor.
- Is there heavy, sudden mortality? If so, respiratory and haemorrhagic diseases. Laboratory diagnosis is surest for proper guidance.

RECORDS

To help improve farming efficiency and pin-point troubles and their solution, a daily record of egg production, feed consumption, mortality, income and expenditure is essential.

BROILER HOUSE



HOUSING

Provide a minimum of 32 sq cms (6 inches) of brooder space per chick under the hover. Allow one square foot of floor space per adult broiler. For the purpose of house construction an average of 0.75 sq ft space per broiler may be taken. Provide for adequate ventilation.

LITTER

Spread 5-7.5 cms (2-3 inches) of clean dry rice husk, saw dust or other litter material. The litter should be free from injurious materials and reasonably free from dust. Cover the litter with paper for the first few days so that chicks may not eat the litter material.

TEMPERATURE

Minimum room temperature should be 70°F. Ventilate moderately. Keep air fresh.

LIGHTING

Use dim all night lights for 2-3 weeks during brooding stage. This helps prevent pile-ups. After this period, a 23-hour lighting programme is recommended.

WATERERS

Provide 100 chicks the following drinking space:

(a) Day-old through two weeks of age — 2 two-litre capacity waterers;
(b) Three weeks of age through 8-9 weeks — 2 one gallon capacity waterers.

Birds should not have to travel more than 3 metres (10 ft) for water. Keep wooden board below the waterers to keep the litter from getting wet. Ensure fresh and clean water.

FEEDERS

Different types of feeders are used. Chick type linear feeders are preferable. Allow 5 cms (2 inches) linear feeding space per bird. As the chicks grow raise feeders sc that the top of the feeder is on the same level as the back of the birds.

MANAGEMENT

Check all electrical equipment. Two days before chicks arrive, turn on the brooders to give a temperature of 95°-100°F two inches above the litter at the edge of the brooder. Check with thermometer at first, but afterwards the behaviour of chicks is the most reliable guide as the amount of heat required for their comfort. Use a solid chick guard, about 45 cms (18 inches) high and about 60 cms (2 ft) from the brooder to keep chicks from straying and to prevent floor drafts. Place chick mash on lids of chick boxes or egg trays, placed evenly about the brooding area (10 for 500 chicks). Between the feed trays, place waterers and fill with clean water. Switch on white light, 40 watt lamps at first.

The First Two Weeks: When the chicks arrive place them under the brooders quickly. Watch the behaviour of chicks. If they huddle together beneath the brooder, more heat is required. If they spread out beyond the edge of the brooder, heat should be reduced. Free movement of chicks around the brooder with their heads turned outwards indicate satisfactory conditions. Outside temperature also makes it necessary to vary brooder temperature. Check conditions last thing in the night. If during the first few days losses exceed 2 per cent, carefully check brooding management and get post-mortem examination.

Four Days Old: Place tubular feeders or chick hoppers about 60 cms (2 ft) from the brooder. Move guards farther back from brooder. Increase the drinker space. Remove damp litter.

One Week Old: Reduce brooder temperature by 5°F. Reduce light intensity if vices are noticed.

After Two Weeks: The most critical period of a chick's life is over. But attention to details should continue in subsequent weeks. Continue to reduce the brooder temperature as required and remove the brooder when its temperature is same as ambient temperature. The brooder may be needed for a month or so, depending on the season. Continuous light must be provided up to eight weeks. When the brooder is removed provide one 40 watt bulb for 9 sq metres (100 sq feet) of floor space.
Debeak all birds to control cannibalism.

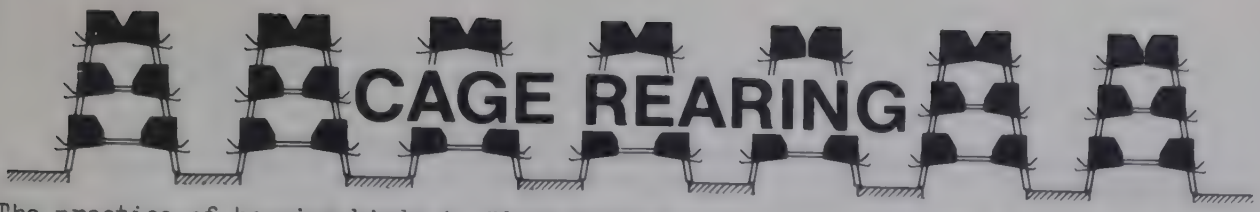
DISEASE CONTROL

Vaccinate chicks against Ranikhet Disease at 5-7 days of age unless already done at the hatchery and repeat at 4 weeks. During chick rearing the disease most likely to occur is coccidiosis. Its organisms thrive on wet litter, and so keep the litter dry. Use coccidiostat in feed. In case of an outbreak, use coccidiocidal drug in drinking water at recommended level.

Starting Baby Chicks

Put baby chicks in a house, supply them with feed and water, and the odds are the chicks will go for the feed first. Research, however, indicates that chicks get a better start and have a better growth rate if they drink first — especially water with sucrose added — before eating the feed. It is recommended that chicks be given 8 per cent sugar water -- 1½ cups sugar per gallon -- for first 15 hours and soluble electrolytes be used for first two days. After three hours and after chicks have drunk, they should then be given feed, top dressed with cracked maize.

— DEKALB Management Newsletter



The practice of housing birds in "deep litter" is now being replaced by "cage system" for reasons of its overriding advantages.The cage system has not only improved the hen housed production, it has also reduced the medication and feed cost. Given below are some management pointers for rearing birds in cages, which can help poultry farmers to run their operations more efficiently.

LAYERS

- Chicks uto 8 weeks require 45 sq inches of cage floor space Growers upto 16 weeks require 54 sq inches of cage floor space. Any compromise on the floor space provided will result in over-crowding and consequent damage to the vital growing programme and will produce pullets that are less than adequate. Chances of diseases like wing rot (neurotic dermatitis) are also greater when chicks and pullets are over-crowded.
- Laying birds require 72-75 sq inches of cage floor space. Any compromise on this will produce stress and social tension and will affect production.
- Remember that, because chicks, growers and layers reared in cages require much less shed floor space than birds in deep litter, there may be 3-5 times as many birds in the shed. Therefore, there must be adequate ventilation and free flow of fresh air to eliminate heat, moisture and ammonia.
- Several layers of paper should be spread over the floor of brooder cages and removed layer by layer during the first 10-14 days. This serves to:

  (a) provide a solid floor when the chicks are young;
  (b) accustom the chicks gradually, to stand on wire;
  (c) keep the brooding area warm by preventing heat loss downwards;
  (d) provide an area for the feed.

- Particularly in brooder and grower cages, care needs to be taken to ensure that the inside surfaces are smooth and free from rough surfaces like jagged G I wire-ends etc. that may injure the birds and also from rust.
- Before housing the birds in layer cages ensure that the precision debeaking touch-up is adequately done as the incidence of pecking in cages is more prevalent.
- Cage brooding and rearing facilitates the monitoring of pullet bodyweights. This facility must be used to produce uniform pullets, conforming in weight to the breeder specifications so that the best production results can be obtained from the flock.
- Birds in cages require adequate supplementation of vitamins and minerals, as certain elements which are normally picked up from the litter are not available to these birds.
- In layer cages, individual water lines should not exceed 200 ft in length. Beyond 200 ft, it is difficult to align waterers and slopes might result.
- The slope of the floor in layer cages should not be more than $2\frac{1}{2}$ inches for a 15 inch depth. A greater slope could induce layer cage fatigue and also result in a greater number of cracked eggs.
- The placement of lights in a layer cage shed should ensure that the lowest rows are adequately lit. The extra light falling on the upper rows will not pose a problem. Shadows should also be avoided.
- A 12" x 18" layer cage is meant for 3 birds. Over-crowding or reduction of the required 72 sq inches of floor space will result in increased mortality, reduced production and lower average egg weight.

- In hot weather, caged birds suffer more severely than birds in deep litter as they cannot stand extremes of climate as well as birds in deep litter do. Every measure possible should be taken to keep the birds cool.
- Caged layers offer the facility of easy identification of culls. Culling should be an ongoing process. Injured and weak birds and obvious culls should be removed daily.

BROILERS

- Till today there is no accepted opinion on the ideal design of cages for broilers under Indian conditions. Broilers require about 2/3 sq ft of cage floor-space and various cage designs are in use in different areas.
- Rearing broiler in cages enhances feed efficiency by 5-10 per cent, thus effecting a 3-7 per cent reduction in overall costs and resulting in better feed conversion.
- The reduction or elimination of enteric infection and infestations in cages further improves feed conversion.
- For ease of marketing, the broilers can be separated by sex and grown separately in cages at four weeks of age.
- The best growing programme would be to use the same cage for starting and growing the broilers.
- Growing broilers in cages can produce certain problems like, a greater incidence of breast blisters particularly if the birds are grown to over 1.4 kgs of body weight.

Do's and Don'ts of Lighting

DO'S

- Do expose growers (8-20 weeks old birds) to a decreasing day length, as it will help to delay the sexual maturity in them and result in their laying a higher percentage of big size eggs.
- Do expose layers to a constant or increasing day length.
- Do find out from the seller the pullets' lighting programme, when buying them at the point of lay.
- Do increase the length of lighting in laying house to 16 hours after the birds are 20 weeks old, and to 17 hours after six months of laying.
- Do clean bulbs/tubes and reflectors.
- Do arrange for emergency lighting system in case of power failure. The options are standby generator or petromax. When using hurricane lanterns, take precautions against fire hazards.
- Do provide continucus light to broilers from the first day till marketing time for helping gain maximum weight.
- Do have phased switching of lights:have half of lights controlled by one switch, and the other half, by another switch.

DON'TS

- Do not use continuous light or dim night light for growers.
- Do not expose growers to increasing day lengths. Such a programme will hasten the sexual maturity in them and so induce them to lay a higher percentage of small-sized eggs.
- Do not expose layers to decreasing day length changes...
- Do not forget that day length changes both in the morning and evening.
- Do not increase the day length in the laying house beyond 17 hours.No advantage is obtained by exceeding 17 hours of light.
- Do not interrupt lighting,otherwise it will cause birds to moult and result in a sharp drop in egg production...

15 Pointers for Higher Egg Production

1. QUALITY BIRD: Choose the strain that will perform best and is known to have good livability under reasonable environmental conditions. Good chicks may cost more but they will perform better and pay more too.

2. HOUSING: There should be ample fresh air, free from drafts. Air must be circulating. High levels of non-desirable gases decrease growth rate and increase flock's susceptibility to respiratory diseases. Ensure that the litter is dry. A well-managed litter helps the birds in putting on feathers and improve feed conversion. It also reduces coccidiosis problems.

3. CROWDING: Overcrowding increases mortality, stress, decreases production and increases production cost.

4. FEEDING: Ensure adequate fresh feed always. Birds that are without feed for six hours will record a drop in production and a 12-hour starvation will result in mould-of wing feathers. There should be adequate feeder space for the birds. Guard against feed wastage. Maintain records of daily feed consumption. It will enable to determine feed utilization and bird's performance.

5. WATERING: Provide plentiful of and clean disinfected water. This management factor, although obvious,is commonly violated.Water restriction is a quick way to accidentally force the flock to moult. Ensure that the waterers are so placed that they are easily accessible to birds.

6. LIGHTING: The duration of light should be 16 hours per day, but not beyond 17 hours. No advantage is obtained by exceeding this limit. The amount of light given to the flock in one day should never be less than that given the day before. A decreasing day length can prematurely cause hens to go out of production.

7. VACCINATION: Ensure that all birds are vaccinated for Marek's Disease and Ranikhet Disease. Birds not vaccinated are highly susceptible to these diseases.

8. DEBEAKING: Follow correct debeaking programme. Poor debeaking can adversely affect egg production.

9. CULLING: Unsuitable and uneconomic birds should be timely culled.

10. HEALTH: Watch for early signs of disease for its timely treatment before it flares up in a big way. Some of the symptoms that indicate the onset of disease problems are: Drop in egg production and feed consumption; increased morbidity and mortality; inactivity and lack of vigour; droopy ruffled appearance and respiratory distress. Look for any sudden change in egg quality.

11. SANITATION: Sanitary measures are of vital importance in poultry operation. Keep roundworms,tapeworms and caecal worms under control. External parasites are a serious farm hazard, and can reduce production if go unchecked.Deworming at regular intervals should be practised.

12. EGG QUALITY: Respiratory and intestinal diseases should be kept under control for the maintenance of quality of eggshells. Indiscriminate use of sulpha drugs can affect the eggshell quality.The use of tetracyclines can, however, improve it.

13. RECORDS: A daily record of feed consumption, egg production,mortality,income and expenditure is essential to help improve farming efficiency and pinpoint troubles and their solutions.

14. ROUTINE CHECKING:All critical items of management should be listed on a daily, weekly or seasonal check list. Every item must be checked. It helps to locate the cause of trouble when it occurs, Routine chores are:Cleaning and refilling of waterers and feeders; cleaning the house and spraying insecticide;stirring the litter; dusting,culling of birds;egg collection, etc.

15. TLC: Tender Loving Care.

Stress

Under intensive system of commercial poultry-keeping, birds are inevitably exposed to stress of one kind or another but these stress factors ("stressors") should not be permitted to accumulate. Stress is a matter of degree (see the list below), and the maximum expression is the bird's death from fright or shock even though no physical injury is involved.

Many organisms, bacteria and viruses, with a potential for causing infectious diseases, lie dormant, causing no apparent symptoms of disease in the birds. These infectious agents invade the tissues of the host when the bird's resistance is lowered due to internal or external stress factors. These "stressors" act as "triggers" in setting off disease reactions.

Stress may be a physical, chemical or emotional factor along with management errors that cause physiological or mental tension. These contribute towards drop in egg production and lowered disease resistance.

Diseases that are induced by stress include: Bluecomb, chronic respiratory disease, coryza, aspergillosis, synovitis and fowl cholera.

Factors associated with stress in the rearing of poultry include the following:

- Moving (from brooder house to growing pens and on to laying houses).
- Vaccination (vaccine reactions may occur from two to ten days after inoculation).
- Extremes in weather (too hot or too cold).
- Overheating or chilling (overheated brooder pens are more likely to harm chicks than slightly cold pens, free of draft).
- Overcrowding (e.g. fighting for a turn at a waterer or feeder is not likely to promote weight gain or production;overcrowding also increases possibility of birds being infected by disease organisms).
- Suffocation (due to piling in corners).
- Physical disturbances (noise, strangers, handling of birds and the like).
- Poor Feeding (substandard quality and inadequate quantity of ration could result in deficiency diseases and general lowering of vitality and resistance to infection; also change in feeds or feeding methods).
- Dehydration & starvation (Temporary water shortage, especially in warm weather, can be harmful).
- Medication
- Debeaking
- Deworming
- Parasites (Birds cannot manage to feed themselves along with families of roundworms or tapeworms, mites, ticks, rodents, etc).
- Rapid growth
- Very high egg production

Some of these stress factors birds can adjust themselves to, provided they are applied singly or gradually. Whenever possible, stresses should be preceded and followed by treatment to give "nature" full assistance in restoring or adjusting the bird to normal health.

Wherever possible, the causes of stress should be corrected, particularly those due to faulty management.

To minimise reactions and reduce losses, use antibiotic or resperine in feed; or add streptomycin sulphate or antibiotic-vitamin mixture to drinking water.

TABLE 51. A guide to culling layers.

Points	Points associated with good layers	Points associated with poor layers
Head	Strong; flat on top; well balanced and broad.	Weak, long and narrow or gable-headed with curved skull (crow headed).
Eye	Full; prominent;bright;set well up and forward in the skull	Small; sunken;dull;set low and far back in the skull.
Face	Lean; good red; fine texture.	Fat; fleshy; coarse-skinned or pale and thin.
Comb and wattles	Fully extended; red and warm.	Shrunken; dry and dull in colour.
Body	Broad; width carried well through to tail; deep, well sprung ribs; straight breast bone.	Narrow, weedy type or coarse type with round, thick bones.
Shanks	Thin, flat, with smooth neat scales.	Round and fat, with coarse scales.
Feathers	Tight and well worn; late, rapid moulting	New and clean, sometimes loose and badly carried; early slow moulting.
Handling qualities	Soft, fine, silky texture of comb, wattles and skin generally; skin of the abdomen very soft and pliable with entire absence of fat; it should be possible to feel the gizzard.	Coarse, thick dry skin of the abdomen, with hard thick layer of fat beneath the skin.
Pelvic bones	Thin; pliable, free from fat.	Thick; stiff; often covered with fat.
Capacity	If laying, 4-5 fingers distance between end of breast bone and the pelvis; large pelvic span, 2-4 fingers.	Only 1-2 fingers between pelvis and breast bone; pelvic bones close together.
Vent	If laying, large; moist; oval.	Small; dried up; round.
Yellow colour (Yellow fleshed breeds)	Entirely absent in vent, eye-lid, beak and shanks.	Present in vent, eyelid, beak and shanks.

Source: Intensive Poultry Management for Egg Production, HMSO Bulletin No 152, page 64, U K Ministry of Agriculture, Fisheries & Food, 1968.



The Deejay Group

is the largest integrated Poultry Organisation in South India. With a modern set-up that includes advanced disease diagnostic and feed analytical laboratories and a professional Technical Services Division. Deejay has the capability to render the most comprehensive services to the poultry industry

Corporate office:

St.Patricks Complex, 3rd Floor, Brigade Road, Bangalore 560 025

Phones: 579245, 577514, 562749, 562738

POULTRY AND AGRO BASED SERVICES: From grass roots to computerization

Broiler farming demands a high degree of managemental acumen and a sense of concern to ensure the end objective of maximum profit. This review concentrates on ways and means to achieve it.

Some Aspects of Broiler Management

KEITH J. ROSARIO
Senior Manager (Poultry Operations), Deejay Group, Bangalore

BROILER farming is like a race. A race to get the flock to marketable weight in the shortest period of time. This demands a high degree of managemental acumen from the broiler farmer and a sense of concern to ensure that the flock is receiving the best possible in management care. The end objective of maximum profits, of course, is to be kept in mind at all times.

There are two ways in which a broiler farmer can increase his income. He can increase the size of his operation, or he can maintain his existing scale and concentrate on cutting his production costs and increasing the efficiency of his output. This review will concentrate on ways and means of achieving the latter.

FACTORS INFLUENCING PROFITABILITY

The major cost factors in broiler rearing, in order of importance are: feed cost, chick cost, medication/labour/maintenance and interest.

The factors that influence the profitability of a broiler operation are: feed conversion ratio (FCR), live body weight, mortality and rate per kg. live weight.

The economics of broiler farming are given on page 103-105.

Four major factors that determine the success of a broiler operation are:

- Choice of breed;
- Quality of feed;
- Efficiency of management; and
- Efficiency of marketing.

Breed and Feed: Cheap chicks and feed are not necessarily the most economic buy. Keeping the economics in mind, even a slight improvement in feed conversion or growth or mortality will offset the extra cost. The choice of breed and feed must always be a business decision, based on the reliability of the suppliers and the proven record of the products in the field. The wrong choice of either of these two inputs can spell disaster for the entire operation.

Management: Good management in poultry means attention to little details that an average flock manager would overlook as unimportant or too troublesome. The attitude of the flock manager towards the flock and his determination to do a good job and achieve specific targets of flock performance, is what makes the difference between an efficient manager and the average one.

Considering the pace of activities in relation to the short span of life of each broiler flock, proper management at every stage of the growing programme is vital.

Flock schedule: Today, most broiler farmers maintain several age-groups of birds on the farm at the same time. However, within individual sheds, the birds would be of the same age group. Thus, it will be possible to follow the "all-in, all-out" system of management, as also prevent the infection travelling from the older to young birds if birds of mixed age group were housed in the same shed. According to the systems in practice, chicks are started every week, ten days, fortnight, twenty days or month. The following table gives the shed requirements,

growing period and vacant period between flocks for each system:

Frequency of chicks' purchase	No. of sheds required	Growing period	Vacant period between flocks
7 days	9	8 weeks	7 days
10 days	7	7 weeks	11 days
14 days	5	8 weeks	14 days
20 days	3	7 weeks	11 days
1 month	2	7 weeks	11 days

The choice of a flock schedule will depend on the body weight requirements of the market, the desirability of keeping in regular touch with the market and the availability of competent brooding staff.

From the above, it is clear that, for any system, the number of batches that can be taken per year will depend on the length of the growing period and that of the vacant period between flocks (down-time). The down-time ranges from 7-14 days. A short down-time plus a short growing period, increases the number of batches that can be produced from a shed in the course of one year. The effect of these two factors on the number of batches that can be produced per year, is shown below:

Length of growing period days	Length of down-time (days)							
	7	8	9	10	11	12	13	14
	Number of batches per year							
47	6.8	6.6	6.5	6.4	6.3	6.2	6.1	6.0
48	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.9
49	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.8
50	6.4	6.3	6.2	6.1	6.0	5.9	5.8	5.7
51	6.3	6.2	6.1	6.0	5.9	5.8	5.7	5.6
52	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5
53	6.1	6.0	5.9	5.8	5.7	5.6	5.5	5.5
54	6.0	5.9	5.8	5.7	5.6	5.5	5.5	5.4
55	5.9	5.8	5.7	5.6	5.5	5.5	5.4	5.3
56	5.8	5.7	5.6	5.5	5.5	5.4	5.3	5.2
57	5.7	5.6	5.5	5.5	5.4	5.3	5.2	5.1
58	5.6	5.5	5.5	5.4	5.3	5.2	5.1	5.1
59	5.5	5.5	5.4	5.3	5.2	5.1	5.1	5.0
60	5.5	5.4	5.3	5.2	5.1	5.1	5.0	4.9

Chick supply: One critical factor in the success of a broiler rearing operation is a steady and uninterrupted supply of chicks. Unless this requirement is ensured, the schedule and all the plans that have gone into it will be upset and so will the farmers commitment to his market. This can result in serious repercussions.

BROILER HOUSE

Broiler houses should be considered as brooder houses. In construction, two particular factors need to be borne in mind:

1. The broiler is a heavy bird and produces a lot of heat. Adequate provision for ventilation is important to the well being of the flock. In general, the width of the shed should not exceed 30 ft.
2. The broiler requires 1 sq ft of floor space on deep litter or 0.66 sq ft on wire flooring.

For open sided houses, a 2½ ft side wall will serve as a wind-breaker and

protect the birds from strong drafts of wind.

Cleaning the house and equipment: As the pace of activities in a multiple broiler operation is so rapid, the possibility of 'slip-ups' or haphazardness creeping into the operation needs to be carefully guarded against. Particularly important in this respect is the cleaning, disinfection and resting of the house and equipment between flocks.

The cleaning and disinfection procedure of the house and equipment should be thorough and methodical and must start as soon as the previous flock has been sold out. This will ensure that the house lies empty for as long as possible before the next flock is received. The period of resting of a shed starts only from the time the clean out period is completed and lasts till the new flock is received. This rest period should not be less than one week.

In planning out a suitable cleaning and disinfection programme the following points need to be considered:

- Reuse of old litter: Nine out of ten times, nothing may happen if part of the old litter is reused. But if a disease is carried in the litter the results could be disastrous. Moreover, use of old litter can bring in a slow and imperceptible load of infection on to the farm which can grow till a point where results are affected.
- Flame gun: Wherever practical, a flame gun should be used on non-inflammable surfaces.
- Powerful disinfectant: Do as thorough a job of cleaning as possible. Use the most powerful concentration of disinfectant recommended on the label.
- No odours: Ensure that the shed is fresh and clean smelling with no odour of disinfectant or insecticide, before the new flock of chicks is received.

BROODING

In broiler growing, as in any race, a good start is vital to success. The first few days of the chick's life are all-important and should be planned well to ensure that the flock gets off to a good start. Clean and disinfect the shed and equipment thoroughly before bringing in chicks.

When chicks arrive at the farm, they need water and feed, in that order. Every care must be taken to counteract the effects of dehydration and transit stress.

It is not enough to provide water; ensure that all the chicks are drinking. Dip their beaks into the water for a couple of seconds, individually before releasing them into the brooders. Electrolytes in the water helps to reduce stress.

The broilers are fast growers. To help them convert its food energy into body weight, they need to be kept warm during the brooding period — warmer than layers. Where brooder temperatures are adequate (95°F in the first week), results are invariably better. This is particularly important in the colder months, when most of the problems can be attributed to inadequate brooder temperatures. Shed thermometer do not cost much but are very valuable aids to proper brooder management. It is also recommended to use hovers made of metal bamboo or any suitable material, over the bulbs. Hovers prevent wastage of heat and reflect it on the chicks.

Feed is also the major cost factor in broiler rearing. A wastage of even 5 gms of feed per bird, per day, will reduce the profitability by as much as 70 paise per bird. Check on the various reasons for feed wastage:

- Spillage outside the bags;
- Spillage while feeding;
- Filling too high in the buckets;
- Filling too high in the feeders;
- Faulty design of feeders;
- Using torn bags; and,
- Rats.

DISEASE CONTROL

Because broilers are reared for a short period, there may be too little time for them to recover from a disease outbreak before marketing. Also, sick birds do not convert feed well. The disease control programme should therefore be aimed at prevention more than at treatment. Medication should be administred only when prevention fails.

Vaccination: A vaccination programme suitable to the area should be adopted and religiously followed. This would include vaccinations against Ranikhet, and perhaps Gumboro, depending on the conditions prevailing in the area. Many farmers routinely skip the repeat Lasota/F_1 at the 6th week, on the gamble that the birds will be sold in just 1½ weeks and that Ranikhet is not likely to strike. Many of them have lost entire flocks at the 7th week. At this point, the loss is in the region of Rs 12/- per bird.

Coccidiosis: Cocci is the greatest enemy of the broiler farmer. Even a subclinical attack can depress growth severely. After a first attack of cocci, birds may reach a meagre 1 kg body weight by 8th week. Treatment too, is expensive, and in the rush to get the flock back to health, sulfa drugs are often resorted too. These have a further depressive effect on growth. Prevention of cocci is better than cure. An effective coccidiosis prevention programme can make world of a difference to the project. Several excellent coccidiostats are now available, which can render such a preventive programme effective. Drugs such as Clopidol are administered in the feed continually from day one till slaughter. Such drugs act from day one of the coccidial cycle and prevent the disease from establishing itself. Consequently, as an additional benefit, the birds are saved from the stress of fighting the organisms to acquire immunity and feed conversion is much improved.

Leg weakness: This is a much discussed problem in broiler rearing, which has as its main cause, nutritional deficiency. The broiler grows so fast that, if top nutritional conditions are not maintained, its legs may not carry its weight, and lameness and mortality may result. Genetics may also play a role in leg weakness in certain breeds in India.

LIGHTING

Generally, a 23-hour lighting programme is recommended for broilers. Such a programme provides the maximum length of light during which the broiler can eat. At the same time it gets used to the phenomenon of darkness. In the event of a power failure, the chances of panic and pile up are thus reduced. This programme can be achieved with dim artificial light switched on one hour after darkness.

UNIFORMITY

Producing a uniform flock is important to the profits of the programme. This can be achieved by checking on sizes and body weights, particularly during the early weeks of age. For optimum targets of performance, the recommended body weights may be obtained from the hatchery, supplying the stock. Certain differences in body weights are inevitable because chicks are not separated by sex. However, as soon as wide differences are noticed, the birds should be separated by size and reared in different pens. This will facilitate special attention and nutrition to be given to the smaller birds. It will also protect them from being bullied by the larger birds and allow them easier access to feeders and waterers.

GROWING BROILERS IN CAGES

Growing broilers in cages or wire floor has several advantages, such as:

- Better utilization of shed space
- Elimination of cocci and other litter borne diseases
- Saving of litter cost
- Possible saving in labour (for cages only).

However the disadvantages should also be borne in mind. The main disadvantages arise if the birds are reared for over 1.5 kgs. A greater incidence of breast blisters may occur.

RECORD KEEPING

Efficient record keeping is one of the keynotes of a successful broiler rearing programme. It is not enough to keep records. They must be referred to frequently and action taken in time. This pays for the little effort it costs.

Record keeping will:

1. Reveal whether the farm is making a profit or not.
   a) If there is a profit, how this may be increased.
   b) If there is a loss, where to look for the cause.
2. Assist management by
   a) Helping to decide which breed and feed are most suitable.
   b) Pinpointing particular periods during which problems are faced.
   c) Highlighting particular areas in which a greater management concentration is required.
3. Create a record of the history of the farm which is of great value in deciding on expansion projects.

In conclusion a few facts about broiler rearing:

1. Males grow faster than females. At market age, they tend to be about one week ahead of the females, where body weight is concerned.
2. Males convert feed to meat more efficiently than females.

Broiler Health Programme for 1000 Birds Unit

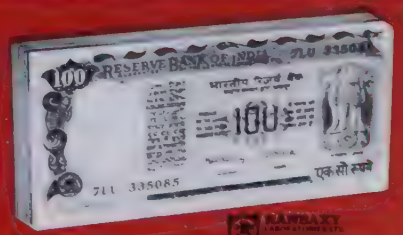
AGE IN DAYS	KIND OF STRESS	FEED CONSUMPTION IN KGS.	PENTAFORTE® Animal Feed Supplement Vitamins A, B_2, D_3, K&E The Production Improver	ZEEBAC® Animal Feed Supplement Zinc Bacitracin 10% The 'PROFITGRO' Programme	AMFEDOL® Animal Feed Supplement Clopidol 25% Loss Prevention Programme	FAMITONE® Water Miscible Vitamin Feed Supplement Vitamins A, D_3 E, C Stress Relief Programme	TONATE® Animal Feed Supplement Tylosin Tartrate 50% CRD Control Programme	ROSCILLIN® POWDER Ampicillin Trihydrate 10% Chick Protection Programme
0-7	CHICK TRANSPORTATION VACCINATION La Sotta & M.D.V.	84 Kgs.	PENTAFORTE® To be fed continuously in feed	ZEEBAC® To be fed continuously in feed	42 gms.	7 Days 105 ml		10 gm./day. for 7 days = 70 gms. = 2 pouches
8-14		210 Kgs.	PENTAFORTE® To be fed continuously in feed	ZEEBAC® To be fed continuously in feed	105 gms.			
15-21		320 Kgs.	PENTAFORTE® To be fed continuously in feed	ZEEBAC® To be fed continuously in feed	160 gms.			
22-28		420 Kgs.	PENTAFORTE® To be fed continuously in feed	ZEEBAC® To be fed continuously in feed	210 gms.			
29-35	Change of feed, rapid growth	530 Kgs.	PENTAFORTE® To be fed continuously in feed	ZEEBAC® To be fed continuously in feed	265 gms.	3 Days 105 ml.	4 pouches of 30 gms. each /day for 3 days in drinking water	
36-42		630 Kgs.	PENTAFORTE® To be fed continuously in feed	ZEEBAC® To be fed continuously in feed	315 gms.	7 Days 245 ml.		
43-49	Rapid Growth	730 Kgs.	PENTAFORTE® To be fed continuously in feed	ZEEBAC® To be fed continuously in feed	365 gms.			
50-56		840 Kgs.	PENTAFORTE® To be fed continuously in feed	ZEEBAC® To be fed continuously in feed	420 gms. withdraw AMFEDOL® 3 days before slaughter			
	Total Medicinal Cost in Rs.		376.4 gms. = 0.3764 Kgs. 0.3764 × Rs. 400/- = Rs. 150.56	762.8 gms Approx = 1 Kg. 1 × Rs. 70/- = Rs. 70/-	1882 gms. Approx. 2 Kgs. 2 × Rs. 128/- = Rs. 256/-	455 ml. Approx. ½ Litre ½ × Rs. 300/- = Rs. 150/-	12 pouches 12 × Rs. 64/- = Rs. 768/-	2 pouches 2 × Rs. 16.22 = Rs. 32.44

TOTAL MEDICINAL COST: FOR 1000 BIRDS FOR 8 WEEKS Rs. 1427.00 ∴ PER BIRD FOR 8 WEEKS Rs. 1.43 ∴ TOTAL MEDICINAL COST: PER BIRD PER DAY Paise 2½ ONLY

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- Reduced chick mortality
- Improved feed utilisation
- Increased weight gain
- Attains maximum weight in minimum period
- Maintains healthy flock with higher percentage of livability

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Layer Health Programme for 1000 Birds Unit

AGE WEEKS	KIND OF STRESS	FEED CONSUMPTION IN KGS.	PENTAFORTE® Animal Feed Supplement Vitamins A, B_2, D_3, K & E The Production Improver	ZEEBAC® Animal Feed Supplement Zinc Bacitracin 10% The 'PROFITGRO' Programme	AMFEDOL® Animal Feed Supplement Clopidol 25% Loss Prevention Programme	PAQUIN® Animal Feed Supplement Sulfaquinoxaline 25% "Coxy Control Programme"	FAMITONE® Water Miscible Vitamin Feed Supplement Vitamins A, D, E, C Stress Relief Programme	TONATE® Animal Feed Supplement Tylosin Tartrate 50% CRD Control Programme	ROSCILLIN® ORAL POWDER Ampicillin Trihydrate 10% Chick Protection Programme	LEMASOL® Animal Feed Supplement Levamisole Hydrochloride 10% Better Feed Utilisation Programme
0-4	CHICK TRANSPORTATION Vaccination (M.D., R.D.) La Sotta & Gumboro	650 Kgs.	32.5 gms.	165 gms.	325 gms.		1st week 70 ml (10 ml per day)	4th week 125 gms./day for 3 days = 375 gms.	1st week of life 10 gms./day for 7 days = 70 gms 2 pouches	
5-8	Vaccination (Fowl Pox) Deworming, Debeaking	1,250 Kgs.	62.5 gms.	250 gms.	625 gms.		8 days · 20 ml = 160 ml During Vaccination etc			8th week Deworming 5 pouches of 20 gms each
9-12	Change of Feed Vaccination ($RD\text{-}R_2$ B)	1,500 Kgs.	75.0 gms.	450 gms.	750 gms.		8 days · 35 ml = 280 ml During Vaccination	9th week 130 gms./day for 3 days = 390 gms.	The birds should be treated with **ROSCILLIN** · ORAL POWDER whenever a disease is noticed in the flock This will control the bacterial infections due to Gm +ve and to Gm-ve Organisms susceptible to **ROSCILLIN** · In viral infections this will prevent secondary complications due to bacterial infections	
13-16	Booster Vaccination ($RD\text{-}R_2$ B)	1,600 Kgs.	80.0 gms.	640 gms.	800 gms.		8 days · 50 ml = 400 ml During Vaccination			
17-20	Deworming, Change of house & feed, Start of laying	2,000 Kgs.	150 gms. (from 19th week onwards 100 gm/ton)	1,000 gms.	Discontinue	17th Week 54 Pouches (9 Pouches/Day × 6 Days) under 3-2-3 Schedule	7 days · 90 ml = 630 ml At the start of production			18th Week Deworming 10 pouches of 20gms each
21-24	Laying Stress	3,000 Kgs.	300.0 gms.	1,500 gms.						
25-30	High laying Stress	3,500 Kgs.	350.0 gms.	2,800 gms.						
31-40		7,500 Kgs.	750.0 gms.	6,000 gms.						32nd week Dew · 15 pouches of 20 gms each
41-60		15,000 Kgs.	1500.0 gms.	15,000 gms.						44th week Dew 15 pouches of 20 gms each
61-72		9,000 Kgs.	900.0 gms.	9,000 gms.						
	Total Medicinal Cost in Rs.		4200 gms = 4.2 Kgs i.e. 4.2 × Rs. 400/- = Rs. 1680/-	36,580 gms Approx 37 Kgs. = 1.5 Drums i.e. 1.5 × Rs. 1700/- = Rs. 2550/-	2,500 gms = 2.5 Kgs. i.e. 2.5 × Rs. 128/- Rs. 320/-	54 pouches i.e. 54 × Rs. 10/- = Rs. 540/-	1540 ml Approx. 1.5 Bottle i.e. 1.5 · Rs. 300 · = Rs. 450/-	765 gms Approx. 25 pouches i.e. 25 × Rs. 64/- = Rs. 1600/-	70 gms = 2 pouches i.e. 2 × Rs. 16 22 Rs. 32 44	900 gms = 45 pouches i.e. 45 · Rs. 10 · = Rs. 450/-

AL MEDICINAL COST: FOR 1000 BIRDS FOR 72 WEEKS **Rs. 7622.00** ∴ PER BIRD FOR 72 WEEKS **Rs. 7.63** ∴ TOTAL MEDICINAL COST: PER BIRD PER DAY **Paise 1½ ONLY**

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- Improved feed conversion
- Increased egg production
- Better hatchablity
- Maintenance of healthy flock size till the last egg

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ABBREVIATIONS: VAC. = VACCINATION: DEB. = DEBEAKING DEW. = DEWORMING

3. The first weight gains require less feed. Weekly feed consumption increases as weight increases.
4. The weekly weight gains are not uniform.
5. Healthy birds convert feed to meat better than sick ones.
6. Usually, better the feed the better the feed consumption, and better the FCR.
7. Any stress will reduce feed conversion.
8. Growth and feed conversion are lower in winter as a greater portion of the feed energy is used to maintain body temperature.

MARKETING

The past two years has seen a literal explosion in the broiler markets which are rapidly expanding in and around most major cities. The reasons for this pattern of growth are not difficult to find. In recent years, there has been an increasing awareness of the need for and value of animal protein. This has markedly altered eating habits particularly in cosmopolitan cities and areas which are relatively non-conservative. Of the acceptable forms of animal protein, mutton at between Rs 29 and Rs 32/- per kg is out of the reach of the common man. Fish is available only seasonally and country chicken, because of its increasing scarcity is also getting out of the reach of the middle class pocket.

Broiler chicken, when it was introduced encountered resistance from consumer's who preferred fresh meat to frozen. This resistance is rapidly fading away and broiler chicken at between Rs 20 and Rs 25/- per kg, has come to stay. Unlike layer farming, broiler farming is quick, requires a smaller capital investment and produces a far quicker turnover. On capital costs, two square feet of deep litter floor space will be needed for one layer for eighteen months. This same space can accommodate two broilers, nine times in eighteen months, i.e., eighteen times more effective use of shed space.

On working capital, while the per bird monthly returns in broiler farming are slightly higher than layers, the money is turned over very much faster.

Many farmers go into broiler rearing, attracted by the apparently attractive profit margins the activity offers. Often, when the time comes to market the flock there are no takers. Commitments made by parties to lift the birds are sometimes not kept, or delayed. In the meanwhile the birds don't stop eating. They grow to a weight that is greater than the market requires and the farmer is occasionaly compelled to sell his flock at a rate lower than the cost of production. This is the beginning of a vicious cycle where the farmer is frantically moving around trying to sell his birds and his management in turn suffers.

Marketing is a very important aspect of the successful broiler rearing project and must be carefully thought out and planned, before the project commences operations; whether the marketing is to be of live birds to dealers and agencies, or of dressed birds to hotels, industrial canteens and cold storages.

Also to be borne in mind are the fluctuations in the broiler rate which are by now, an accepted part of the business. There will be times when the rate falls to marginal profitable levels for a few months. But this is generally made up by the higher rates during the rest of the year. There are several reasons for fluctuations in broiler consumption. Therefore price of broiler consumption drops —

- In certain festival seasons where non-vegetarian food is not consumed;
- When fish is abundant and cheaply available;
- In educational institutions during vacations;
- At the onset of summer.

Broiler consumption increases —

- During the monsoons, when fish is not available;
- In tourist centres during the vacations;
- Immediately following and during certain religious festivals; and,
- In tourist centres during the season.

It would be a good idea for farmers to check the factors and the seasons applicable in their areas and plot a consumption pattern. This would help in planning production and marketing activities.

It is the farmer with good management and a sound base who will be able to achieve the ultimate objective — HIGHER PROFITS.

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With the volume of parent breeders going up in India, artificial insemination offers a sure way to increase the reproductive efficiency of the breeders.

Increased Fertility Through Artificial Insemination

Dr T. KOTAIAH
Geneticist,
Kasila Farms Private Limited, Hyderabad

THE profits in the commercial hatchery business depend on the reproductive efficiency of the breeding stock, ie, egg production and overall hatchability. A 2000-female parent layer flock produce about 10,000 hatching eggs per week. One per cent increase in hatchability results in production of additional 100 chicks or 50 pullet chicks or Rs 300 per week with the same inputs. Overall hatchability largely depends upon fertility. Under natural mating, fertility tends to drop due to many reasons, age and environmental temperature being the main. In India, climate controlled houses are yet to be adopted due to high capital involved.

Artificial Insemination (AI) is the procedure by which the semen is collected from the males and is manually deposited into the reproductive tract of the female. Thus AI seems to be the sure way to eliminate the mating part of reproduction and maintain the fertility.

Ninety per cent of the commercial layers in the Western countries and as much as 65 per cent of them in India are in cages. Cage housing is advantageous to floor housing due to (a) reduced housing cost per bird; (b) reduced feed consumption; (c) less labour; (d) production of larger and cleaner eggs. But most of the parent layers are maintained on deep litter or wooden slats or on wire floor to facilitate natural mating. If the mating can be taken care of by AI, all the advantages of cage housing can be exploited at parent stock level also and reduce the cost of production of commercial chicks.

With the efficiency of breeding, heavier and heavier broiler breeders are coming into the market. Today, a broiler mal breeder weighs about 7 kg and is more vulnerable to unsuitable climate. Fertility drops with rise in house temperature and with advancing age. Artificial insemination is the best way to overcome this problem.

HISTORY & PRESENT STATUS

Though, AI has been practised for long in large animals it is not employed to that extent in poultry mostly because birds multiply faster and can be transported easily. Western countries, where poultry development has been faster, have not employed it mainly due to involvement of labour in handling every bird. They have been attempting to maintain the fertility by climate control of the houses and by proper weight and health control of birds. Yet, AI has been employed in basic breeding for (a) birds in cages; (b) producing interspecies hybrids where natural mating is not possible; and (c) mating birds of variable sizes like dwarf hens with heavy normal cocks.

Poultry in India is developing fast and the volume of parent breeder operation is going up. The hatchermen are looking at ways and means to increase the number of chicks from each parent. Controlled houses are yet to come up due to high expenditure involved. As the labour cost is not prohibitive many hatcheries have been experi-

menting with AI in layer parents. AI in layer parents is very successful and now more than 60 per cent of the layer breeders in South India and many in North India are in cages under AI. People involved in broiler parents are also in desperate need to increase the reprcductive efficiency of their birds. The only point of delay is the unsuitability of confined cages environment to heavy broiler breeders in hot climates and the accompanying foot pad problems in the males on the wire floors. Yet, many are trying it and we may find many broiler breeders also in cages shortly.

Advantages of AI:

- The fertility can be maintained at least 2 to 4 per cent higher in prime age flocks upto 6-8 per cent in aging flocks.
- Fertility is ensured irrespective of the age of the birds and climate.
- Advantages of cage housing are well proved. By practising AI all these advantages can be exploited to reduce the production cost of chicks.
- Only fewer males are required. This reduces the feeding cost on males and increases the selection intensity in males. Use fewer but good males.
- Cleanliness of hatching eggs is very much stressed in hatchery operation. This can be achieved by cage housing and AI.

Disadvantages:

- Involvement of human labour; it may not be expensive in our country. Yet sincerity of labour and availability of trained labour to do a monotonous job daily may be difficult. Human errors will be reflected only after three weeks when eggs are candled.
- Confinement of birds in cages is a must. Hence abolition of cages may be an end to AI again. Heavy birds can not be housed in cages unless the house has climate control. When the house has climate control, handling stress is negligible.
- If there are bacterial diseases connected with digestive and reproductive tracts they can spread fast.

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Artificial insemination has become a practical and adoptable technique in commercial poultry breeding and is gaining momentum.

Managing Artificial Insemination

Dr A.G. KHAN
Sr. Scientist & Head, Department of Poultry Science,
Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur

ARTIFICIAL insemination (AI) has become a practical and adoptable technique in commercial poultry breeding. AI technique ensures improved fertility per hen basis by avoiding social behaviour adversities and by providing opportunity to cull poor reproductive performing birds. This technique is gaining momentum in broilers and layers due to improved animal husbandry practices and economic consideration. Historically following the work of Spallanzi (1780) and Milovanov (1938) in large animals, Burrows and Quinn (1937) first described method of collecting cock semen. Artificial insemination of hen by gentle abdominal pressure technique was adopted by Warren & Gist (1943) and commercial application in reproduction was reported in early 1950. In India, this technique on large scale was adopted in 1970 by Indian Veterinary Research Institute, Izatnagar, and Jawaharlal Nehru Agricultural University, Jabalpur.

Artificial insemination can be used in cases of physical incompatability between sexes and helps in surveillance of individual bird of either sex to improve reproductive performance of flock and avoids preferential matings. Poor fertility syndrome in broiler breeders in natural mating is overcome by AI and improves fertility under adverse climatic conditions by increasing frequency of insemination. AI favours accuracy in hatching records coupled with the increase in selection pressure of sires and steps up the rate of genetic improvement.

SEMEN COLLECTION

Testes of fowl are situated abdominally and have no accessary glands. The semen after insemination is stored in sperms nests situated at utero-vaginal junction and infundibulum. The ova shed is captured and fertilized in this first part of oviduct.

"One man" and "two man" collection methods are involved in chicken. Two man method is fast, easy and efficient to operate. In this method males are trained for semen donation by lumbar-reflex method which involves gently passing palm of the hand from back towards tail feathers, encircling root of tail between thumb and forefinger. The reflex-action helps the cock to evert copulatory papilla which can be gently pressed by forefinger and thumb of the operator waiting for eversion. Excessive pressure may cause bleeding. The birds should be picked up gently from cage and manipulated quickly avoiding struggling and excitement. This procedure, once cocks are trained for donation, does not take more than 10-15 seconds. The prerequisite for obtaining good quality and quantity of semen is that cocks should be kept on wire cages individually for 5-7 days. Otherwise picking cocks from floor pens might give disappointing response. It is advisable that feathers from cloacal region are removed during training period to avoid contamination.

SEMEN VOLUME

Abdominal massage and lumbar reflex methods may cause variation in semen volume.

Average values are given below:

	Heavy breed	Light breed
Volume	.75-1.0 ml	.4-.6 ml
Density	6.1 x $10^6/mm^3$	6.8 x $10^6/mm^3$
p^H	7.0-7.2	7.0-7.2
Age at which semen can be collected	22-24 weeks	20-22 weeks
Appearance	Pearly white	Pearly white

INSEMINATION TECHNIQUE

The female placed on hard surface or on open cage door is caught by one assistant holding the shank and the palm of other hand and pressing abdomen forward and upward gently. The opening of the oviduct can be seen easily. The tuberculin syringe, AI syringe with semen cone or simple glass cannula (rounded end) with a mouthpiece attached with rubber tube can be used for insemination.

The semen should be placed 2.5-4.0 cm deep in the oviduct opening of the cloaca. Insemination cannulae should be rinsed with 1 per cent sodium chloride solution and not with water which may cause severe damage to sperm.

Dose and depth of insemination: Insemination depth of 2.5-4.0 cm is ideal for good fertility. An undiluted semen dose of 0.05 ml is satisfactory in terms of fertility based on eggs laid for 2-10 days, post insemination. However, as per sperm density .02 ml is sufficient to ensure good fertility.

Interval of insemination: Insemination in chicken is recommended at 5-7 days interval. Maximum fertility is observed on the third day post insemination and maintained 6-7 days. The abrupt decline starts from seventh day onwards. To obtain fertility above 90 per cent the insemination should be repeated on the fifth or sixth day.

Insemination time: AI is practised during afternoon hours usually after 1.00 pm because presence of egg in uterus may lower fertility.

Semen dilution: The fertilizing capacity of avian semen is quickly lessened on storage. Temperature of 1-2°C provide optimum conditions for diluted semen storage. Semen dilution ratio is 1:2 or 1:4 and insemination dose from such diluted semen is .03 to .05 ml given every 5-7 day intervals. The insemination dose of 20-25 million sperm is recommended for optimum fertility. The table below shows the composition of commonly used semen extenders for diluting semen.

Gms per 1000 ml

Ingredient	Ringers	Lock's	Tyrodes
Nacl	9.00	9.00	9.00
Kcl	0.30	.24	0.20
$Cacl_2$	0.25	0.42	0.20
$Mgcl_2$	-	-	0.10
$NaHCo_3$	0.20	0.20	1.00
Dextrose	-	1.00	1.00
p^H	7.00	7.00	7.00

Practically extenders are used to dilute semen rather than for long-term storage. AI should be done as early as possible after dilution.

MANAGEMENT POINTERS

The preparation of males and females and attitude of staff carrying out the AI technique and their attention to details are most important. The routine AI is not only monotonous but also strenuous and unpleasant.

1. The males be housed on wire cages. Recommended cage size for broiler is 46 x 61 x 61 cm. Smaller size can be used for small breeds. The floor wire mesh size of 1" x 1" may avoid foot-pad injury which is common in heavy breeds. A movable base may eliminate the handling during removal for semen collection. Dubbing of males is desirable to improve their virility and vigour.

2. Normal feed fortified with larger crushed grains increases semen volume. Males should be raised under 20-30 per cent feed restriction to avoid excess fat deposition near cloacal orifice as it causes hinderance in evertion of copulatory papilla and its squeezing by operator.

3. It is expected that 10 per cent males may not respond well to semen dona-

tion. Persistent defecators, physically abnormal males, and poor quality semen producers should be culled in the beginning. Males giving good volume and quality with persistency should be retained.

4. Normally semen should be collected twice in a week.

5. In non-layer, abdominal pressure technique will not evert oviduct opening. Such birds may be culled.

6. Special care of breeding birds is required during summer months as rise in temperature may influence overall fertility even after repeated insemination.

7. Separate insemination cannula may be used for each hen. Transmission of mycoplasmosis, chicken embryo lethal (CELO) virus or avian encephalomyelitis may occur by contact.

8. Labcratory tests to estimate fertilising capacity are sperm concentration, motality, pH, methylene blue reduction test to indicate metabolic activity and sperm abnormality.

AI EQUIPMENT

Collection cup: 5 cm diameter glass or plastic funnel with sealed stem serves as good collection cup.

Insemination cannula: A plastic or glass cannula inserted in to a piece of rubber tube mounted to the end of syringe or glass mouthpiece is commonly used for insemination. For mass insemination automatic insemination cannula fitted with graduated syringe and store cup is reccmmended. Disposal cannula of strains are preferred.

Wash bottle: A wash bottle to keep 1 per cent sodium chloride.

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Feeding & Nutrition

To the commercial poultry farmer, hen is essentially an egg/meat producing machine. His objective in feeding his birds is to produce salable eggs/meat of good quality at the lowest possible cost. His economy is determined by the actual cost of the feed that a bird eats, say, laying a dozen of eggs or producing a kilogram of meat, and not the price per kilogram of feed.

With the feed costs being the single biggest element in the farm operations, the efficiency with which the feeding is handled will reflect on his profitability. If a bird lays even five more eggs per year with a given feed,then the farmer's profitability increases by 30 per cent.Or, if his bird eats only three grams less of feed every day,his profit goes up by 20 per cent.

Normally, a hybrid hen eats about 40 kg of feed per year (about 110 gms a day) and lays about 20 dozen eggs or more.A broiler chick would consume about three kgs of feed in eight weeks it matures ready for market. The quantity and quality of eggs/meat and the amount of feed consumed depends on the nutritive value (protein level) and calories (metabolizable energy) of the feed. Various aspects of feeding and nutrition are presented in following tables.

TABLE 52. Recommended rations (per quintal of feed) for broilers.

Composition	Unit	Broiler Starter (0–6 weeks of age)	Broiler Finisher (6–9 weeks of age)
Yellow Maize	kg	45.0	48.0
Rice Polish	kg	10.7	17.7
Groundnut Cake (expeller pressed)	kg	30.0	22.0
Lucerne Meal	kg	1.0	1.0
Fish Meal	kg	11.0	9.0
DL-Methionine	gm	40	—
Mineral Mixture	kg	2.0	2.0
Vitamin A+B_2+D_3 supplement	gm	30	30
Vitamin B_{12} supplement	gm	20	20
Vitamin K	mg	100	100
Potassium Iodide	mg	20	20
Manganese Sulphate	gm	10	8
Zinc Carbonate	gm	10	8
Antibiotic feed supplement	gm	50	50
Zinc Bacitracin	gm	100	100
Coccidiostat	gm	50	50

Courtesy: Central Training Institute for Poultry Production & Management (CTIPPM), Hessarghatta, Bangalore.

TABLE 53. Recommended rations (per quintal of feed) for various age groups of layers.

Composition	Unit	Chick Mash (0-8 weeks of age)	Grower Mash (8-20 weeks of age)	Layer Mash Phase I (20-45 weeks)	Layer Mash Phase II (45-80 weeks)
Yellow Maize	kg	29.0	26.0	35.0	40.0
Rice Polish	kg	33.7	43.8	32.1	31.1
Wheat Bran	kg	—	2.0	—	—
Groundnut Cake (expeller pressed)	kg	22.0	13.0	17.0	12.5
Fish Meal	kg	10.0	7.0	6.0	6.0
Lucerne Meal	kg	3.0	3.0	3.0	3.0
DL-Methionine	gm	40	—	—	15
Molasses	kg	—	3.0	—	—
Mineral Mixture	kg	2.0	2.0	3.0	3.0
Vitamin A+B_2+D_3 supplement	gm	20	20	30	30
Vitamin B_{12} supplement	gm	20	20	20	20
Vitamin K	mg	100	100	100	100
Vitamin E	mg	200	200	200	200
Potassium Iodide	mg	20	20	20	20
Manganese Sulphate	gm	5	3	3	3
Zinc Carbonate	gm	8	5	3	3
Shell Grit	kg	—	—	3.8	4.3
Antibiotic feed supplement	gm	50	50	50	50
Zinc Bacitracin	gm	100	100	—	—
Coccidiostat	gm	50	32	—	—

Courtesy: Central Training Institute for Poultry Production & Management (CTIPPM), Hessarghatta, Bangalore.

TABLE 54. ISI requirements for chicken feeds.

Characteristic	Chick (0–8 weeks)	Grower (8–20 weeks)	Layer (20–80 weeks)	Broiler Starter (0–6 weeks)	Broiler Finisher (6–9 weeks)	Breeder
Moisture, % by wt, (max)	10	10	10	10	10	10
Crude Protein (CP)* (N x 6.25), % by wt, (min)	22	16	18	22	19	18
Crude Fibre*, % by wt, (max)	7	8	8	6	6	8
Acid Insoluble Ash (AIA)*, % by wt, (max)	4.0	4.0	4.0	3.0	3.0	4.0
Salt (as NaCl)*, % by wt, (max)	0.6	0.6	0.6	0.6	0.6	0.6
Calcium (as Ca), % by wt, (min)	1	1	2.75	1	1	2.75
Available Phosphorus (P), % by wt, (min)	0.5	0.5	0.5	0.5	0.5	0.5
Linoleic acid, % by wt, (min)	1	1	1	—	—	1
Lysine, % by wt, (min)	1	0.7	0.5	0.9	0.9	0.5
Methionine, % by wt, (min)	0.35	0.25	0.25	0.35	0.35	0.25
Total sulphur amino acids, % by wt, (min)	0.75	0.5	0.5	0.75	0.75	0.5
Metabolizable Energy (ME), (Kcal/kg), (min)	2700	2600	2700	2900	3000	2700
Mineral or Vitamin						
Manganese, mg/kg	55	55	55	60	60	55
Iodine, mg/kg	1	1	1	1	1	1
Iron, mg/kg	20	20	20	40	40	20
Copper, mg/kg	2	2	2	4	4	2
Vitamin A, IU/kg	4000	4000	8000	6000	6000	8000
Vitamin D, AOAC chick units/kg	600	600	1200	600	600	1200
Thiamine, mg/kg	6	6	6	2	2	6
Riboflavin, mg/kg	5	5	5	5	5	8
Pantothenic acid, mg/kg	10	10	15	12	12	15
Nicotinic acid, mg/kg	30	20	20	40	40	20
Biotin, mg/kg	0.1	0.1	0.15	0.1	0.1	0.15
Vitamin B_{12}, mcg/kg	15	15	15	8	8	30
Alpha Tocopherol, mg/kg	10	10	10	20	20	20
Choline chloride, mg/kg	1300	—	—	1400	1400	1300
Zinc, mg/kg	—	—	—	50	50	—

Note: Particle size: 710 micron IS sieve.
* Value specified is on moisture-free basis.
Source: IS: 1374-1977 (Third Revision).

TABLE 55. Average growth rate and feed requirements for egg-type chickens.

Age in Weeks	Average weight of bird (gms)	Cumulative feed in kgs per 1,000 birds
4	275	650
8	590	1,900
12	850	3,400
16	1,100	5,000
20	1,300	7,000
24	1,550	10,000
30	1,600	14,500
40	1,700	22,000
60	1,700	37,000
80	1,700	52,000

TABLE 56. Average growth rate and feed requirements of commercial broilers.

Age in Weeks	Average weight of bird (gms)	Cumulative feed in kg per 1,000 broilers	Feed Conversion Ratio
0	38	-	-
1	100	105	-
2	250	350	-
3	500	850	-
4	800	1,450	-
5	1,100	2,050	1.86
6	1,400	3,050	2.17
7	1,700	3,825	2.25
8	2,100	4,850	2.31

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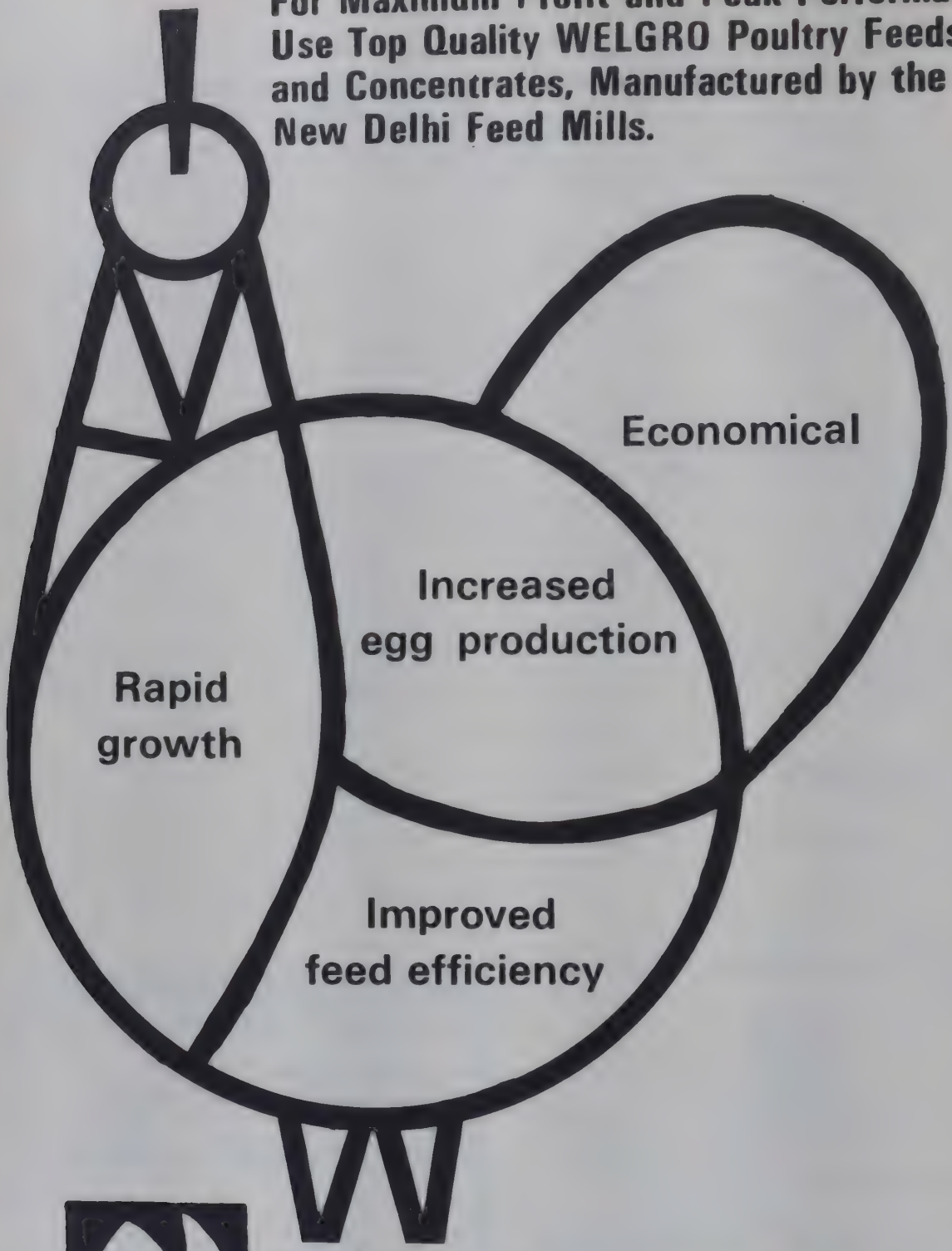
TABLE 57. Rates of inclusion of some common poultry feed ingredients.

per cent

Ingredients	Range of inclusion for	
	Chicks	Growers & Layers
Energy Sources		
Maize	0-50	0-50
Molasses	0-5	0-5
Rice polish (deoiled)	0-30	0-30
Rice polish (fresh)	0-50	0-50
Salseed cake	0-3	0-5
Tapioca meal	0-10	0-10
Triticale	0-30	0-30
Wheat bran	0-10	0-15
Vegetable Protein Sources		
Groundnut cake (expeller/deoiled)	0-50	0-40
Cotton seed cake	0-5	0-5
Linseed cake	0-5	0-10
Maize gluten meal	0-10	0-10
Maize oil cake	0-10	0-10
Mustard cake	0-5	0-10
Niger cake	0-15	0-15
Safflower cake	0-15	0-15
Sesame seed meal	0-10	0-10
Soyabean meal (heat-treated)	0-30	0-30
Sunflower cake	0-10	0-20
Guar meal	0-6	0-6
Animal Protein Sources		
Fish meal	3-15	3-10
Blood meal	0-3	0-3
Feather meal (hydrolysed)	0-5	0-5
Meat meal	0-7	0-8
Silk worm pupae meal	0-5	0-5
Miscellaneous		
Lucerne meal	0-3	0-5
Bone meal	0-2	0-2
Lime stone	0-2	2-6
Pencillin mycelium	0-2	0-2
Salt	0-0.5	0-0.5

Source: Central Training Institute for Poultry Production and Management (CTIPPM), Hessarghatta, Bangalore, Karnataka.

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Laboratory for Quality Control of Feeds

Ms S.J. BAINTON & Dr R.D. COKER
Tropical Development and Research Institute, Overseas Development Administration, London

AN efficient quality control programme is essential if high quality feeds are to be produced and utilized for the poultry industry. Such a programme can control the nutritive value and the aflatoxin content of raw materials and finished feeds.

In order to achieve these objectives, a small quality control (QC) laboratory may be established in conjunction with a feed manufacturing plant or a poultry farm, as a separate entity offering analytical services to the poultry industry.

The quality control laboratory will comprise a sample preparation room plus an analytical laboratory. All sample preparation equipment must be enclosed within a dust extraction bay so that all toxic dust is efficiently entrained. Laboratory owners and managers have a duty to ensure that their staff are adequately protected from all toxic airborne material.

The "analytical sequence" which each incoming sample will pass through can be summarised as follows:

(a) Sample/Batch registration;
(b) Physical inspection;
(c) Sample preparation (grinding and sample division);
(d) Analysis -- nutritive assessment and aflatoxin content;
(e) Recording and reporting; and,
(f) Action.

If the QC laboratory is attached to a feed mill or poultry farm, it is essential that, as a first action, batches of feed are subjected to sensory examination for evidence of moisture damage, foreign material, pests, moulds and rancidity.

Upon receipt, it is important that samples are labelled and their receipt recorded in the laboratory record book. The analytical method used, the computations performed and the final results should also be recorded on carefully prepared result sheets. The analysis results should be reported to the laboratory supervisor and, finally, to the feed-mill manager/customer as rapidly as possible so that unsatisfactory batches of feed may be identified and removed. A QC laboratory will be judged according to its ability to work quickly and accurately.

The discussions, above, describe the operation of a single QC laboratory responsible for the combined assessment of both the nutritive value and the aflatoxin content of samples of poultry feed. However, laboratories may also be established which are involved with only one of these assessments.

The establishment of a Nutrient Control Laboratory may be entertained by smaller organisations. However, the additional costs associated with an Aflatoxin Laboratory or a complete QC laboratory will require the financial resources of larger organisations. In some instances, it may be appropriate to divide the responsibilities for sample preparation and sample analysis. For example, a comparatively small feed mill or poultry farm may be able to support a sample preparation

facility whilst sending its samples to an Aflatoxin Laboratory which does not offer a sample preparation service.

NUTRIENT CONTROL LABORATORY

Initially, a small laboratory for the Control of Nutrients may only wish to carry out moisture, crude protein and fibre determinations, which are most important in reflecting the quality of the sample, and expand the range of analyses as experience develops and finance allows.

1. Proximate analysis
   - (a) Moisture determination;
   - (b) Crude protein;
   - (c) Crude fat;
   - (d) Crude fibre;
   - (e) Ash; and,
   - (f) Nitrogen Free Extract (NFE), calculated by difference.
2. Minerals
   - (a) Calcium;
   - (b) Phosphorus;
   - (c) Salt; and,
   - (d) Manganese.
3. Miscellaneous parameters -- urea, NPN, rancidity, etc.

Care must be taken when utilising processed materials such as fish meal, meat meal, etc, since the availability of lysine, an essential and often limiting amino acid, can be considerably reduced during their manufacture.

Microscopic examination of the sample may be of value to a small mill in identifying adulterants such as sawdust or foreign ingredients such as castor seed in raw materials. Specialised training in this procedure is necessary.

AFLATOXIN CONTROL LABORATORY

The aflatoxins are toxic compounds, produced by certain fungi, as a result of the fungal contamination of poultry feedingstuffs. The presence of these compounds in poultry diets can have a deleterious effect on the health and productivity of poultry as well as causing death when high levels of contamination are experienced. Severe economic losses can result from the action of the aflatoxins. The establishment of Aflatoxin Laboratories in India will, hopefully, play a major role in controlling the levels of aflatoxin in poultry feed and feed ingredients.

The establishment of an Aflatoxin Laboratory at the Central Training Institute for Poultry Production and Management (CTIPPM), Hessarghatta, has clearly demonstrated that an efficiently organised monitoring programme can control the occurrence of aflatoxin in poultry diets and has facilitated the successful establishment of the Central Duck Breeding Farm at Hessarghatta.

An Aflatoxin Laboratory is composed of:

(a) A Sample Preparation Room; and,

(b) An Analytical Laboratory. Ideally, these two areas should be in close proximity but clearly separated, so that the generation of dust and noise within the Sample Preparation Room cannot interfere with operations performed in the Analytical Laboratory.

Preparation Room: Samples will be stored both in their original form and also after grinding/subdivision, before passing to the Analytical Laboratory. It is most important that the storage of samples is properly controlled. An area should be set aside for sample storage with the provisions of adequate (a) shelving for the smaller samples and (b) dunnage for the larger samples. The samples should be stored in sound, sealed and clearfully labelled containers. Used samples should be removed regularly and the storage area kept spotlessly clean.

The grinding, subdivision and general handling of the samples generates considerable dust. Consequently, these operations should be looked upon as the most hazardous part of the analytical sequence. It is imperative that every effort is made to protect the operators from toxic airborne material There is no room for compromise! All handling, grinding and subdivision procedures must be performed within an extraction bay linked to an efficient Filter Unit. A supply of compressed air is required to facilitate the thorough cleaning of the sample preparation area and equipment. Needless to say, operators should always wear a full set of disposable protective clothing when engaged upon sample preparation operations. Protective clothing should not be removed from the sample preparation area.

Analytical Laboratory: Approximately 10 aflatoxin analyses may be performed each day by one to two operators. The cost of

solvents and glassware, for example, may be much reduced, if only one analytical method predominates. Home-made TLC plates may be used for qualitative analyses whilst precoated TLC plates are highly recommended for quantitative analyses.

An Aflatoxin Laboratory must be manned by staff who are properly trained in all aspects of sampling, sample preparation and aflatoxin analysis. There are no short cuts to proper training. Annual training courses are held at the Central Training Institute for Poultry Production and Management at Hessarghatta, Bangalore.

(For further information regarding equipment and methods, reference may be made to the authors at: Tropical Development and Research Institute, Overseas Development Administration, 56-62 Gray's Inn Rd, London WC1X 8LU).

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Health Care

Intensive raising of poultry in commercial farms inevitably exposes the flock to various diseases which cause mortality and loss of production. The need for the development of disease-free environment in the poultry house and the application of sound management practices, including a vaccination programme are of utmost importance. Not all losses due to poultry diseases can be avoided but they can be kept at the minimum through disease control and by preventive prophylactic measures.

A key to profitable poultry keeping is often the accurate and prompt diagnosis of diseases. Not commonly realized is the fact that a disease which kills even 10 per cent of birds cuts off all profit. Many a disease problem can be traced to errors in management, e.g., a faulty brooder could cause chilling, overheating or asphyxiation of some or all members of a flock; wet patches in deep litter are a predisposing factor for many parasitic diseases such as coccidiosis; mouldy grains and contaminated litter can give rise to aspergillosis and many mycotic diseases.

Disease detection: Despite all possible precautions, diseases do occur. So, a farmer must be alert to detect the first symptoms of a disease for its timely treatment before it flares up in a big way. Some of the symptoms that indicate the onset of a disease problem are: Drop in egg production and feed consumption; increased morbidity and mortality; inactivity and lack of vigour; droopy ruffled appearance and respiratory distress such as sneezing and coughing which are more pronounced at night.

Disease control: In the control of poultry diseases, prevention is the aim. Flock treatment, though of great value in some instances, is generally of secondary importance. Individual treatment of birds is rarely economical to the commercial poultry farmer. The regular use of drugs as a preventive measure and for growth promotion must be done with great caution. Any prolonged use of drugs, particularly antibiotics, may lead to reduced efficiency for growth stimulation and for disease control. Some farmers consider the continued use of antibiotics as an insurance against diseases,but this practice should be avoided as far as possible and greater attention should be given to good management and prophylactic measures.

Among disease-related problems is cannibalism or feather picking. It is strictly not a disease but a vice in poultry of picking one another's feathers, toes, vents, combs and other parts of the body.Its causes are chiefly environmental—close confinement due to overcrowding, idleness, dietary deficiencies (particularly of salt), presence of depluming mites at the base of feathers and high temperature. Among the remedies are: An increase in salt dosage for two to three days, debeaking, adequate feeding and watering facilities and minimizing overcrowding.

Sanitation and isolation: Diseases of poultry usually originate in four ways: Carry-over from previous flock via contaminated premises, or are either egg borne, brought on the farm with new stock, or introduced later by natural and mechanical carriers associated with improper sanitation. When disease occurs, destroy and dispose off all dead and dying birds. Use separate pens for sick and healthy birds,preferably in separate buildings.Different attendants for sick and healthy birds are desirable.Move healthy birds to temporary quarters and give them priority on care. Clean and disinfect the poultry house, paying particular attention to roosts, nests and other equipment. Wait for 30 days before restocking.

Vaccination: In poultry farming, the motto that prevention is better than cure is particularly relevant. Vaccination is one of the few proven ways of preventing diseases by building up immunity against them in the vaccinated bird. In some diseases, particularly viral, such as the Ranikhet Disease and fowl pox against which no treatment is available, vaccination offers the only way to protect birds. Not all vaccinations, however, impart lifelong immunity. So, it is important to know the period of immunity, the age at which the bird must be vaccinated, the dosage and the route of vaccination and the storage conditions for stocking vaccines. Vaccination does lead to some reaction and stress among birds. So, a vaccination schedule must be prepared,based on the prevalence of diseases in the area or a previous history

of diseases on the farm. A local veterinary hospital or dispensary may also provide the necessary guidance.

Besides vaccination, other methods of disease prevention are: Purchase of healthy stock from a reputable hatchery; development of disease-free environment in the poultry house through suitable sanitation and disinfection; proper poultry management measures; and timely detection and treatment of diseases so as to curb them before they flare up in a big way.

In the following pages, key symptoms, diagnosis, prevention and treatment of various diseases of poultry as also a schedule of vaccination and diagnostic methods against some of the prevalent diseases of poultry in India are presented to aid the poultry farmer and extension personnel in a tentative diagnosis and disease control.

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5. Piperazine Adipate Powder.
6. Broacil Mastitis Formula.

Dictionary of Poultry Diseases

ASPERGILLOSIS

Also known as brooder pneumonia, aspergillosis is caused by fungus, Aspergillus fumigatus. Symptoms include gasping, croupy breathing, eyes inflamed, cheesy pellet under the eyelid, increased thirst, morbidity; mortality high in young chicks. Avoidance of mouldy litter or feed serves to prevent outbreaks. There is no satisfactory treatment. Adding potassium iodide in drinking water has been used with varying success.

AVIAN ENCEPHALOMALACIA

Also known as crazy chick disease or ataxia, avian encephalomalacia is a condition caused by Vitamin E deficiency. Symptoms include moping with eyes closed, stumbling, retraction of head, nervous symptoms, running about with outstretched wings, lack of coordination, rapid contraction and relaxation of legs; finally complete prostration and death. Rations fortified with Vitamin E will be effective.

AVIAN ENCEPHALOMYELITIS

Also known as epidemic tremor, avian encephalomyelitis is caused by a filterable virus. Affected chicks (usually upto 3 weeks) show nervous symptoms; unsteady gait, shivering or tremor of the head, neck, tail or other parts of the body; chicks dull and drowsy; loss of appetite. Use of antibiotic-vitamin in drinking water can stimulate appetite. Drastic culling of affected birds. Survivors can be used for breeding purposes. Only sign in layers is transitory drop in egg production; stop hatching during production drop.

AVIAN LEUCOSIS COMPLEX (ALC)

A group of virus diseases in chickens, affecting visceral organs including nervous system and causing enormous financial losses. See Lymphoid Leucosis and Marek's Disease for new classification.

AVIAN MONOCYTOSIS

Also called bluecomb disease, monocytosis is caused possibly by virus. Symptoms include: Drop in feed consumption; dehydration and increased thirst; crop usually dilated; foul-smelling whitish or watery diarrhoea; characteristic dark bluish head parts; shrivelled legs; high fever in terminal stages; drop in egg production. Antibiotics and vitamins in drinking water or feed, coupled with good management, will be effective.

AVIAN NEPHROSIS

Caused by a variant strain of the virus of infectious bronchitis, avian nephrosis has been often confused with infectious bursal disease. Highly infectious and contagious, the disease is marked with sudden onset, droopiness, depression, anorexia, dehydration ruffled feathers, watery diarrhoea; birds show tremors when handled. No specific treatment. Hygienic measures are of primary importance.

BOTULISM

Also called limberneck, botulism is caused by toxin produced by bacterium, Clostridium botulinum. Symptoms: Birds appear dull and sleepy; weak and unsteady on the legs; loss of appetite; progressive paralysis of neck, wings and legs; birds unable to lift head;

feathers usually loose and may fall out; white watery diarrhoea may be present; complete paralysis and collapse; in severe outbreaks, mortality may be fairly heavy. In treating botulism, epsom salts in wet bran mash (1 kg/160 birds) and in drinking water (1 kg/220 birds) are helpful. Spoiled food and meat should not be fed. All dead birds and animals should be promptly removed from range or houses and disposed of. Advise good management practices.

BUMBLEFOOT

Caused by Staphylococcus aureus, streptococcus and other organisms, which gain entry to body through injuries such as cuts and bruises in the foot pads as a result of nail, sharp splinters, etc. Symptoms: Lameness; swelling of the foot pad and surrounding tissue; formation of pus in the ball of foot and around the base of the toes; in advanced cases, entire leg may be affected. Cut abcess with sharp knife; squeeze out fluids or cheeselike pus by pressing out the cores; wash with antiseptic; apply tincture of iodine or sulpha ointment on the opening; daily dressing will hasten recovery. As a preventive measure, check litter and roosts for sharp objects like jagged projections of nails, protruding portions of roost wire, sharp splinters, etc.

CHRONIC RESPIRATORY DISEASE (CRD)

Also known as air sac disease, CRD is caused primarily by Mycoplasma gallisepticum (MG), formerly known as pleuro-pneumonia-like organism (PPLO), but often mixed up with other infections like IB, ILT virus and bacteria like E. coli, etc. MG is between a bacterium and a virus in size. Symptoms: Sniffling, rattling, sneezing, nasal discharge, swollen sinuses, swollen eyes and other signs of respiratory distress; loss of appetite; drop in egg production. Spreads slowly through flocks (in contrast to fast-spreading bronchitis and Ranikhet Disease). Periodic testing for Mycoplasma infection and dipping of hatching eggs in effective antibiotic solution prior to incubation are effective preventive measures. Birds should be treated with antibiotics, e.g., tetracycline, tylosin phosphate, erythromycin, in feed or water. Nitrofurans are helpful in reducing losses due to E. coli; strict isolation of the flock should be maintained to avoid introduction of the disease; breeding males should not be added to the flock unless tested; replacements should be by day-old chicks originating from a serologically negative stock; correct faulty management. Note: The most common of stress diseases, Mycoplasma infection probably lies dormant and outbreaks occur most frequently at times of stress (sudden change in environment, vaccination, debeaking, etc). It may also be triggered off in the presence of diseases like Ranikhet Disease, bronchitis, coryza, etc. Flocks that appear to be perfectly healthy may also be susceptible to transmission.

COCCIDIOSIS

Caused by a parasitic protozoa. There are nine recognized species of coccidia affecting poultry: Eimeria tenella causes bloody or caecal coccidiosis; E. necatrix, E. acervulina, E. praecox, E. mitis, E. brunetti, E. maxima, E. hagani, E. mivati, all of them cause intestinal coccidiosis. Symptoms: Bloody droppings; blood tinged diarrhoea; dehydration of comb; birds droopy; drop in feed consumption and egg production; emaciation; high rate of mortality unless checked. While it is impossible to prevent some infection from coccidia, good sanitation and keeping litter dry and

not packed, will help in keeping down the occurrence. Continuous, low-level use of a coccidiostat through the feed, coupled with good management, will minimize outbreaks. In the treatment of affected birds, administration of drugs such as amprolium, nicarbazin, nitrofurazone, sulfaquinoxaline, sulphadiazine, sulphamerazine, sulphamezathine, Unistat and Zoalene in feed or drinking water is quite effective. Do not continue treatment for a long period. Note: Laying flocks usually acquire a natural immunity before they go into egg production. In laying flocks with insufficient exposure, coccidiosis problems can and do arise. Natural immunity is the only method of protection against outbreak in layers raised on litter. There is, however, no cross-immunity between species of coccidia. If a bird develops immunity to one species after infection by that species, it can still have a disease outbreak when infected by other species. Immunity is not needed for meat birds on a good coccidiostat programme, nor for cage- or battery-reared birds. Immunity is strictly species specific, i.e., immunity to one coccidial species, as E. acervulina, confers no immunity against other species.

ESCHERICHIA COLI INFECTIONS

Caused by a bacterium, E. coli. Symptoms: Ruffled plumage; droopiness; diarrhoea; loss of colour; loss of weight and poor feed conversion, if only intestinal tract is affected; if air sac is affected, severe depression, rattling or coughing. Furazolidone (Neftin), antibiotics and furasol in drinking water are effective; disinfect drinking water; good management is essential.

FOWL CHOLERA

Caused by a bacterium, Pasteurella multocida. Symptoms: In very acute form — dead birds on roosts or in nests or on floor. Greenish-yellow diarrhoea; complete loss of appetite; sometimes respiratory distress; increased thirst; swollen joints, comb and wattles; rapid loss of weight; high mortality upto 90 per cent of the affected birds. In treating affected birds, sulpha drugs such as sulphamezathine, sulphamerazine and sulfaquinoxaline in feed or water are effective; antibiotics like streptomycin, procaine penicillin and chloramphenicol are also useful. Proper sanitation and need to eliminate stress conditions must be emphasized.

FOWL POX

Caused by a filterable virus. Symptoms: Pox lesions on comb, wattles, legs; loss of appetite; discharge from nostrils and accumulation of foamy material in the corner of the eyes; cheesy (diptheritic) membrane in mouth; birds suffer from suffocation unless membrane is removed; drop in egg production; mortality as high as 50 per cent. Prevention: Pigeon pox vaccine for laying birds; fowl pox egg-adapted vaccine in birds except in pigeons and laying birds. Remove necrotic membrane from mouth and larynx of the affected birds; stimulate appetite with wet mash or add antibiotic-vitamin mixture to drinking water; use a good disinfectant during all outbreaks.

GUMBORO DISEASE

Also known as Infectious Bursal Disease (IBD). Caused by a filterable virus. Symptoms: droopiness, severe prostration; incoordination, wobbly gait; whitish watery diarrhoea, soiled vent feathers, vent picking. Usually affects chicks of 2 to 6 weeks of age. Mortality negligible, but morbidity is high. Early IBD infection has been shown to reduce the efficacy of vaccines against a number of viral diseases, including RD, IB, MD and fowl pox. No known method

of treatment. Vaccination useful.

INFECTIOUS BRONCHITIS (IB)

Caused by a filterable virus. Symptoms: In chicks — Sudden onset and rapid spread of symptoms; sneezing, hoarse coughing, gasping, rales, nasal discharge, wet eyes; distinct crackling sound heard when chick is held close to the ear. In adults — Sudden onset and rapid spread of symptoms; gasping and coughing; nasal discharge not usually observed; drop in egg production (10 to 50 per cent); production of abnormal, misshapen, rough and soft shelled eggs with watery whites; decline in albumen quality; production of such eggs may continue long after symptoms subside; mortality may be as high as 25 per cent in young chicks, but in chicks over 6 weeks of age mortality is negligible. Rapid spread differentiates IB from CRD; no nervous symptoms noted in chicks as in the Ranikhet Disease; no swelling of facial tissues as in Infectious Coryza. Prevention: Modified live attenuated chick embryo vaccine; mass vaccination of birds at day-old with this vaccine in enzootic areas through spray, aerosol or drinking water. No specific treatment; overcrowding should be corrected; if the disease is complicated with CRI or other respiratory diseases, treatment with broad spectrum antibiotics may be indicated along with sound management practices; check drafts, other housing conditions that may interfere with flock comfort.

INFECTIOUS CORYZA

Caused by Haemophilus gallinarum. Also called roup. Symptoms: Sneezing, coughing, gasping, difficult breathing; swollen facial tissues and wattles; foul-smelling discharge from eyes and nostrils; drop in feed consumption and egg production. Sulpha drugs, e.g., sulfaquinoxaline in feed or water, sulphathiazole sodium in water will help control disease; use high level antibiotics in feed and water; regular culling of birds; remove all birds having swollen head parts.

INFECTIOUS LARYNGOTRACHEITIS (ILT)

Caused by a filterable virus. The disease usually affects adult birds. Symptoms: Respiratory distress marked; extremely difficult breathing, coughing, rattling; blood coughed up; watery eyes; walls and posts near floor may show spots of bloody mucus; drop in egg production. Prevention: In affected birds, stimulate feed consumption with wet mash, high-level antibiotic feed or the use of antibiotic-vitamin mixtures in drinking water.

INFECTIOUS SYNOVITIS

Also called Infectious Arthritis, synovitis is caused by virus-like organism, Mycoplasma synoviae. Symptoms: Listlessness; birds weak and thin; lameness; hock and foot joints enlarged; swollen joints; large breast blisters; greenish coloured loose droppings; decrease in egg production by 20-30 per cent; little or no mortality, although upto 30 per cent culls. In the treatment of synovitis, tylosin, phosphate, nitrofurans, broad spectrum antibiotics in feed or water, are effective.

LYMPHOID LEUCOSIS

Also known as visceral lymphomatosis or Big-liver Disease. Caused by a filterable virus. Symptoms: Difficult to detect in early stages; enlarged and distended abdomen; loose droppings; slight drop in feed consumption and egg production; birds may adopt penguin sitting posture; the sick birds usually are not paralyzed during early stages. No known treatment. Purchase chicks from a source which has no history of leucosis.

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B.P. VET.

FPV
FOWL POX VACCINE
(LIVING)

NDV-LaSota
NEW CASTLE DISEASE
(RANIKHET DISEASE)
VACCINE (LIVING)
La Sota STRAIN B.P. VET.

MUKT-R_2B
NEWCASTLE DISEASE
(RANIKHET DISEASE)
VACCINE (LIVING)
MUKTESWAR R_2B STRAIN

NDV-F
NEW CASTLE DISEASE
(RANIKHET DISEASE)
VACCINE (LIVING)
F STRAIN

RANIPOX
MUKTESWAR STRAIN
AND FOWL POX COMBINED
VACCINE (LIVING)-RANIPOX

IB
AVIAN INFECTIOUS
BRONCHITIS VACCINE
(MASSACHUSETTS TYPE)
LIVING. B.P. VET.

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MAREK'S DISEASE (MD)

Caused by virus. Symptoms: Most of the affected birds will have some degree of paralysis, although chickens with acute form may not show this condition; those birds with paralysis may die because they are unable to reach feed and water. Acute form: Generally affects younger age group (6-10 weeks);usually sudden death with a high rate and definite peak in mortality;in some outbreaks, paralysis may be seen. Classical form (between 3 and 5 months of age): In mature birds, symptoms are characterized by various degrees of paralysis of legs/wings or neck; marked loss of weight; difficult breathing and sometimes diarrhoea; skin lesions are usually associated with feather follicles. No treatment. Good sanitation and hygiene is very essential. Prevention: Vaccination with Herpes Virus Turkey (HVT) vaccine at one day of age usually protects birds through their lifetime.

OMPHALITIS

Also called Mushy Chick Disease, navel infection, omphalitis is caused by bacterial infection of the navel. Primarily incubator-borne disease; when the navel opening fails to close properly after hatching, mixed bacteria may enter the chick's body through that opening. Contamination of hatching trays contributes to spread of disease. Symptoms: General weakness, depression, drooping; tendency to huddle near source of heat; infected unhealed navels (after 72 hours of hatching); rapid spread and sudden death; mortality may be high. Antibiotics or nitrofurans may be helpful in preventing mortality; brooder temperatures may be increased slightly; thorough clean up before and after hatching is very essential. Recommend setting clean eggs only.

PARASITES

A. EXTERNAL PARASITES: Caused by mites and lice. Symptoms: Irritation; loss of appetite; drop in egg production; anaemia. Dust and spray the affected birds with Gammexane, sodium fluoride or Malathion. Use of lindane, BHC, DDT, aldrin, dieldrin, endrin, chlordane, heptachlor or toxaphene on poultry or in poultry house is prohibited in the United States.

B. INTERNAL PARASITES (Intestinal Helminthiasis) -- Tapeworms: Caused by Rallietina echinobothrida, R. tetragona and other tapeworms. Symptoms: Loss of appetite; loss of weight; emaciation; diarrhoea; drop in egg production. Roundworms: Caused by Ascaridia galli. Symptoms: Loss of weight; drop in egg production; emaciation. Caecalworms: Caused by Heterakis gallinae. Symptoms: Caeca inflamed and thickened; weakness; anaemia. Piperazine compounds for treating roundworms and Discestal and phenothiazine for tapeworms.

PEROSIS

Also known as slipped tendon or nutritional deficiency disease. Caused by manganese or choline deficiency in growing chicks. Symptoms: Swollen joints; bowing of legs; tendons slipped away from joints; birds walk on the hock joint; many birds may be affected at one time. Rations carrying adequate levels of manganese,choline, biotin, niacin, folic acid and vitamin B12 are recommended. Manganese deficiency may result in poor hatchability.

RANIKHET DISEASE (RD)

Also known as Newcastle Disease. Caused by a filterable virus. Symptoms: In chicks — Coughing and rattling, gasping; trembling; lack of coordination; partial or complete paralysis of extremities;

muscular tremor; abnormal movements; mortality upto 100 per cent. In adults — Respiratory distress; impaired appetite; nervous symptoms; severe drop in egg production; soft shelled and poor quality eggs produced. LaSota F_1 strain vaccine for 1 to 6-day old chicks; Repeat of F vaccine at 4-5 weeks of age and R_2B Muktesswar strain vaccine at the age of 8-12 weeks, are preventive measures. No known treatment. Minimize secondary complications by stimulating appetite with wet mashes, pellets, high-level antibiotic mashes or antibiotic-vitamin mixture in drinking water.

SALMONELLA INFECTIONS

Also known as pullorum (bacillary white diarrhoea), fowl typhoid. Salmonella pullorum, a bacterium, causes pullorum disease; S. gallinarum, S. derby, S. montevideo, S. anatum and S. giveale are among 50 species that cause paratyphoid infection. Symptoms: Pullorum — Sudden death; general listlessness; huddle together, appear chilled; droopiness, closed eyes; whitish pasty diarrhoea; little or no appetite; irregular laboured breathing; peculiar chirp. Fowl typhoid — Sudden death may be the first sign of infection; loss of appetite, increased thirst; greenish coloured diarrhoea; comb and wattles pale, shrivelled. Hatchery and flock sanitation is most important in the prevention and control of paratyphoid and other salmonella infections of poultry. This is so because of wide distribution of the organisms, the numerous serological types and the lack of adequate methods to detect carriers among adult flocks. Affected birds should be given furazolidone (Neftin), sulphathiazole, sulphamerazine, sulfaquinoxaline in mash or drinking water for a few days. Sulpha treatment appears to be more effective than antibiotics. Treatment measures can reduce mortality and help reduce the spread of the disease. All these measures, however, will not eliminate the infection from the treated birds. Recovered birds should not be kept for breeding unless repeated tests prove that they are not carriers of infection. Note: Salmonella infections have become a great concern in the field of public health because of the widespread nature of the infection, particularly of paratyphoid type. They are communicable to man.

SPIROCHAETOSIS

Also called tick fever. Caused by a blood parasite, Borrelia anserina (Spirochaeta anserina). Symptoms: Increase in temperature; cynosis of head; increased thirst; yellowish-green diarrhoea; birds listless; sleepy; pale combs and wattles; loss of weight; high mortality upto 50-60 per cent; affects female birds more than the males. Spirochaetosis vaccine is a good preventive measure. In the treatment of spirochaetosis, destroy vectors, i.e., ticks, with DDT, Gammexane, Malathion, Neguvon; various arsenicals, e.g., arsephenamine, neoarsephenamine, acetarsone and sodium arsanilate are quite effective; antibiotics like penicillin are very efficacious.

THRUSH

Also known as Moniliasis, sour crop. Caused by a fungus, Candida (Monilia, Oidium) albicans. Symptoms: Stunted growth; birds listless; feathers ruffled; slimy, foul-smelling discharge from mouth; emaciation; loss of appetite. Treat affected birds with nystatin phosphate; use copper sulphate (1:2,000 dilution) in drinking water every other day for 7 to 10 days; check for insanitary conditions, overcrowding, etc; have feed and water containers thoroughly cleaned.

TUBERCULOSIS, AVIAN

Caused by bacterium, Mycobacterium tuberculosis var avium.Symptoms: Gradual loss of weight, wasting of muscles; pale, dry, withered comb and wattles; dullness, sleepiness; diarrhoea with yellowish or greenish droppings; swollen joints; lameness. No treatment. The most thorough method of eradication is to test and slaughter the entire flock if disease is wide spread. Birds reacting to tuberculin test should be destroyed. Complete depopulation and rigorous sanitary measures are recommended.

VIRAL ARTHRITIS

Caused by a reovirus. Generally affects meat type birds. Infected birds show symptoms of limited movement and lameness with swelling of the tendon sheaths of the shank and the foot area extending above the hock; birds sit on their hocks. Morbidity may reach 100 per cent, whereas mortality is usually quite low. No satisfactory treatment. Good hygienic practices will be helpful.

EMERGING DISEASES

AVIAN INFLUENZA

An infectious disease caused by viruses of the myxovirus group, affecting the respiratory, enteric or nervous system of poultry. The most severe form, fowl plague, is an acute, exotic disease of poultry characterized by short course and high mortality. Symptoms: respiratory involvement and diarrhoea; produces air sacculitis; severe drop in egg production and hatchability. No effective treatment. Good husbandry practices with emphasis on hygiene and segregation of birds by age are important.

EGG DROP SYNDROME-76

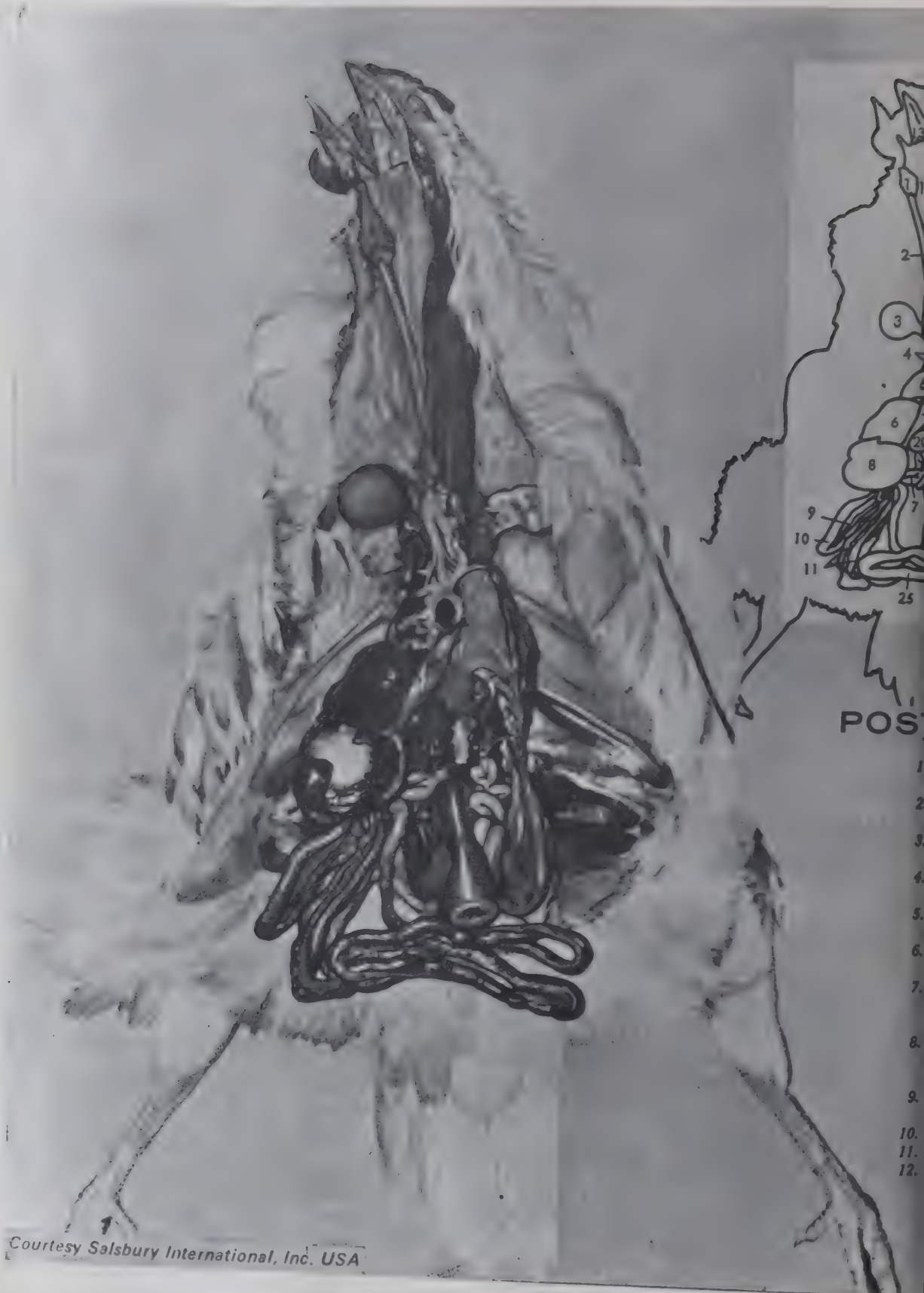
A new adenovirus infection of poultry, recognized in 1976, affects only birds in lay.Characterized by a failure to reach normal peak production, a sudden drop in egg production and production of abnormal eggs (soft or weak shell, eggs without shell), the EDS-76 can cause heavy economic losses. A killed oil adjuvant vaccine has been tried with good results.

INCLUSION BODY HEPATITIS (IBH)

An acute infectious disease of young chickens caused by an adenovirus and characterized by sudden increase in mortality, anaemia & hepatitis (changes in liver condition). Severity and occurrence of the disease may depend on other predisposing factors such as an earlier infection of Gumboro Disease (Infectious Bursal Disease). No specific treatment; hygienic precautions essential.

NECROTIC DERMATITIS

Necrotic Dermatitis, also known as Gangrenous Dermatitis, is an environmental disease affecting growing chicks from 4 to 16 weeks of age. Cause is uncertain, but usually an infection caused by Clostridium bacteria, and often with Staphylococcus and E coli. Other contributing factors may be complication of selenium and/or vitamin E deficiency, or of inclusion body hepatitis. The disease is marked by sudden onset and sharp increase in mortality, lameness, red to black gangrenous patches over the breast, thighs and legs. The disease is not transmitted from bird to bird. Each bird contracts the infection from the litter or soil. Maintenance of proper litter condition is essential. Correct deficiencies in nutrition.



Courtesy Salsbury International, Inc. USA

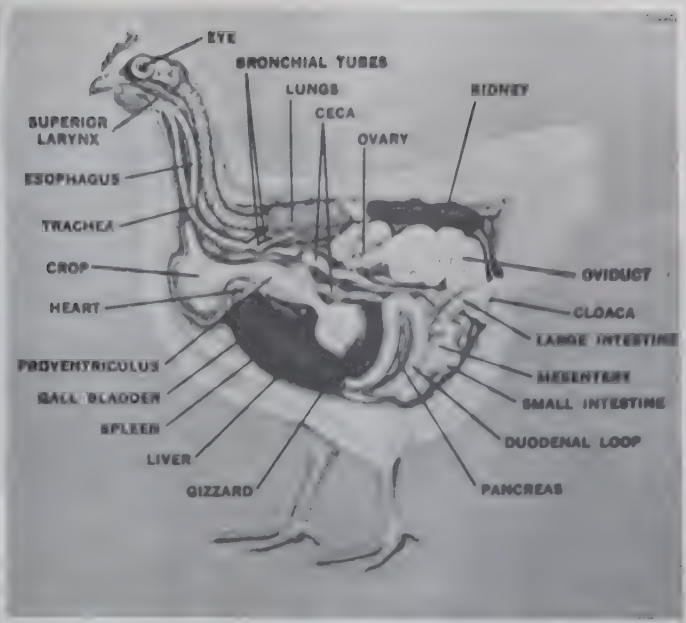
1 LARYNX
2 TRACHEA
3 CROP
4 BRONCHIAL TUBES
5 HEART
6 LIVER
7 CECAL TONSILS
8 GIZZARD
9 PANCREAS
10 DUODENAL LOOP
11 CECA
12 EYE
13 MOUTH
14 ESOPHAGUS
15 BRACHIAL NERVES
16 LUNGS
17 OVARY
18 PROVENTRICULUS
19 KIDNEYS
20 SPLEEN
21 GALL BLADDER
22 OVIDUCT
23 LARGE INTESTINE
24 CLOACA
25 SMALL INTESTINE
26 VENT

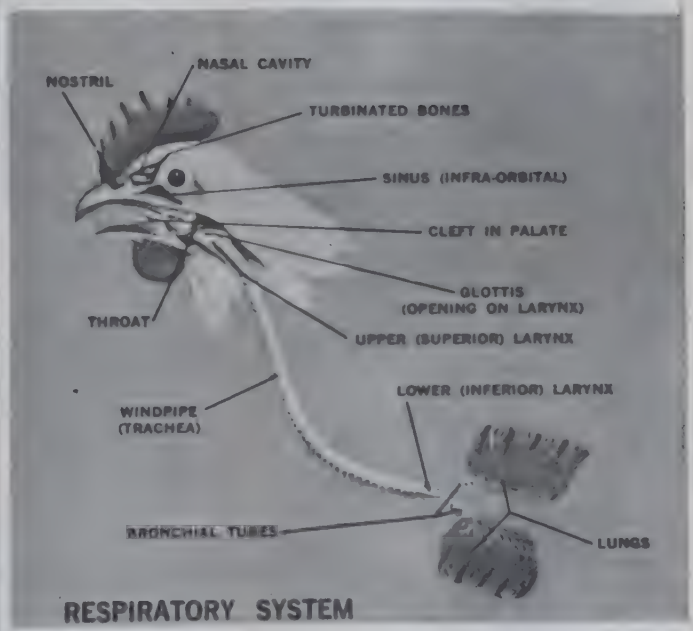
GNOSTIC ORGANS IN
ORTEM EXAMINATION

n side of mouth. Scan mouth for lesions of pox, mycosis,
aber of other diseases.
phagus. Inspect for injury from foreign matter or tiny
umps).
and trachea lengthwise. Examine for excess mucus,
ery material.
rop. Note whether contents are impacted or sour-smelling.
crop and examine lining for signs of mycosis etc.
ondition of air sacs, often cloudy in disease. (Air sacs are
in the photograph.)
eart, liver, spleen, lungs, and bronchial tubes for obvious

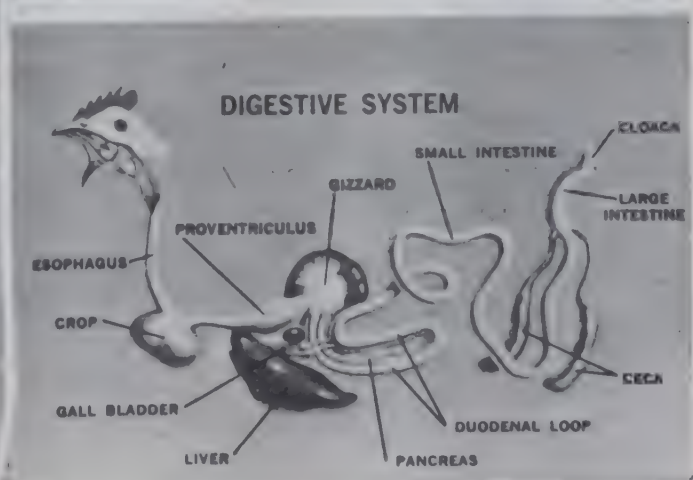
Intestines for nodules, tumors, or hemorrhages. Slit in-
ngthwise to examine for worms, free blood, inflammation
ng, ulcers, hemorrhagic areas, and excess mucus.
eca, noting nature of the contents. If blood is found, wash
xamine lining. Look for cheesy cores, tiny cecal worms,
ing.
ntriculus, noting any hemorrhages in lining, or white

ard, examining lining for roughness and erosion.
abnormalities of the ovary, oviduct, kidneys.
wollen brachial nerve, one of the lesions of leukosis.





RESPIRATORY SYSTEM



Vaccination Guide

Vaccination is one of the more effective ways of preventing specific diseases by building up immunity in the birds. In some diseases, particularly viral, such as Ranikhet and fowl pox against which no treatmert is available, vaccination offers the only way for the farmer to protect his birds. Not all vaccinations, however, impart lifelong immunity. So, it is important to know the period of immunity, the age at which the bird must be vaccinated, the dosage and route of vaccination and the storage conditions for stocking vaccines. For making the vaccination programme effective, the following guidelines may be helpful.

- Perform vaccination in healthy flocks. Suitable treatment for any abnormal conditions would be beneficial before vaccination.
- No vaccination programme should be carried out during any outbreak of disease. The attendants and fomites carry infection from the diseased birds to a healthy flock.
- Keep all vaccines under refrigeration until ready to use. At the time of vaccination, the reconstituted vaccine, particularly the live viral vaccine, should be kept on ice. Follow manufacturers directions carefully.
- Do not rush through the vaccination procedure. Use speed but don't sacrifice accuracy and thoroughness in order to gain a few extra birds.
- Do not try to "stretch" vaccines. Vaccine stretching is false and dangerous economy.
- Destroy all the empty bottles and unused vaccines. Saving left-over vaccine is a dangerous practice. Immunizing ability of a vaccine can be readily lost in a short time. Clean up and disinfect all equipment and clothing after the vaccination job is over.
- Broilers need short-term immunity (one vaccination may be sufficient to see them through the market age). The layers and breeding flocks need a vaccination programme that provides protection throughout the growing period and the laying year.
- Vaccination does lead to some reaction and stress among birds. Such stress or some limited reaction is a sign of proper take of the vaccine. Careful observation and husbandry practices should be helpful to get over this situation.
- For minimizing stress in summer, vaccination should be performed at night or in the early hours of the morning when the temperatures are low.
- A stabilizer such as skim milk should be used in the drinking water when vaccine is being administered. This will neutralize the small amounts of disinfectants or sanitizers that might remain in the watering system.
- The addition of dry milk--115 grams (4 oz.) to each 40 litres (10 gallons) of water prior to the introduction of the vaccine--will protect against adverse effects, and will prolong the life of the vaccine.
- For the success of any immunization programme it is advisable that vaccination is performed by trained personnel and under the guidance of qualified personnel.
- Keep a record of the brand, kind and batch number of vaccines used.

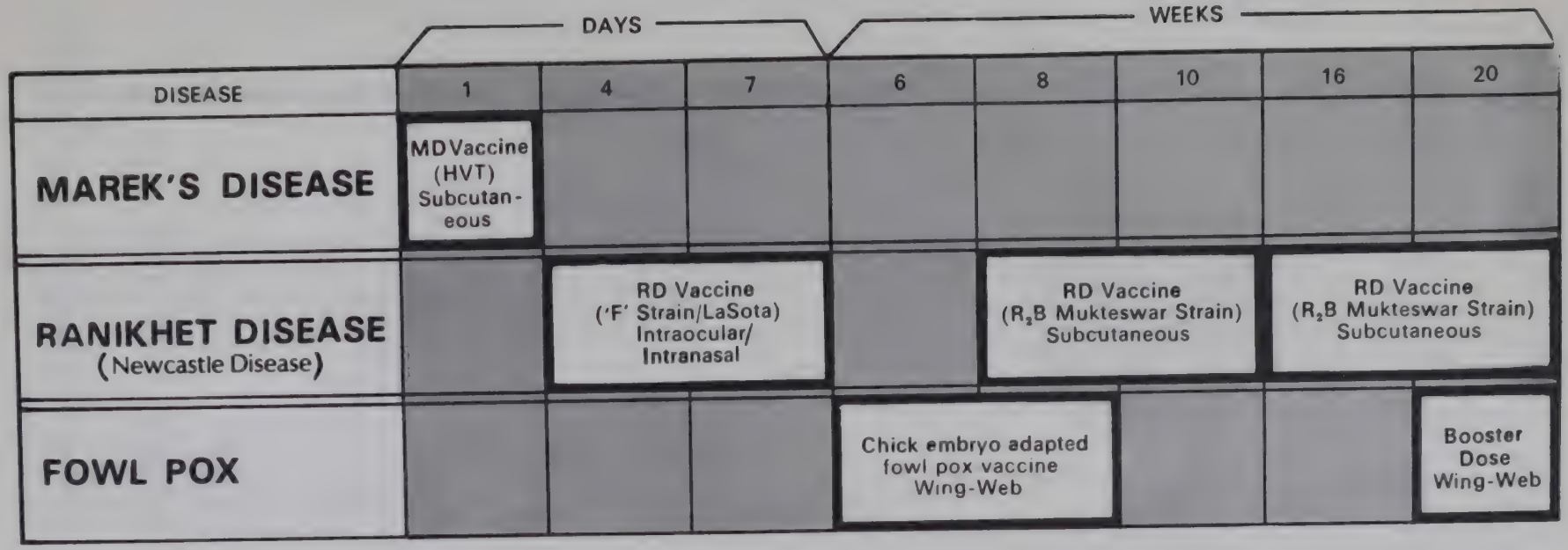
A vaccination schedule for layers & broilers is given in the chart on the following page. This schedule is only a guide. It must be tailored to meet specific needs and local conditions. The advice of veterinarian must be followed.

Birds vaccinated under 6 weeks of age usually develop immunity that is of short duration. For this reason, vaccination for certain diseases are delayed until birds are 6 weeks of age or they are revaccinated.

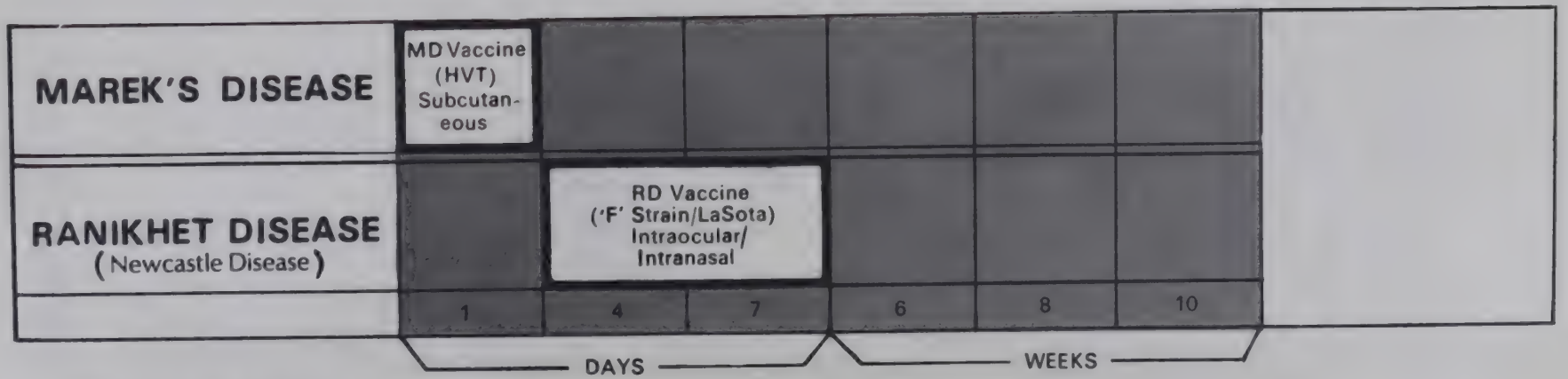
Vaccines against IB, Gumboro Disease, tick fever may be administered in birds in areas where the diseases are endemic.

VACCINATION SCHEDULE

LAYERS



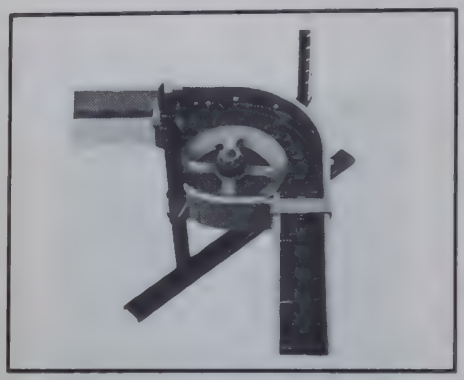
BROILERS

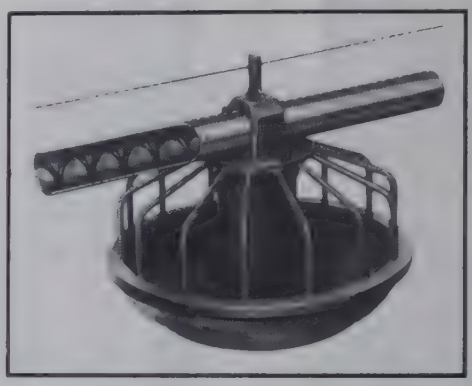


Note: LEFT EDGE OF BOX — MINIMUM AGE
RIGHT EDGE OF BOX — MAXIMUM AGE

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- *axial fans*
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- *laying nests*
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Education, Extension & Research

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Today, a nation-wide network of agricultural universities, veterinary colleges, agricultural colleges and research institutions provide a base for specialized courses and post-graduate education, research and training, disease-diagnosis and extension. Complementing their activities is a chain of central government poultry farms, state government farms, Intensive Poultry Development Projects/Blocks (ICDPs), Small Farmers Development Agency (SFDA), Special Poultry Production Programmes, Integrated Rural Development Projects (IRDP), District Rural Development Agencies (DRDAs), poultry extension centres and tens of thousands veterinary hospitals and dispensaries.

The Indian Council of Agricultural Research (ICAR) in New Delhi coordinates, guides and finances research in the field of poultry science through agricultural universities and national research institutions. Although the oldest poultry science department in the country was set up in 1939 at IVRI, the Central Avian Research Institute (CARI) was established in 1979 in the campus of IVRI to coordinate and tackle the wide-ranging problems of farmers and the input industry at the national level. Also located at CARI is the UNDP Centre of Excellence for Advanced Studies in Poultry Science which attracts scientists and other specialists from all over the country.

In the majority of agricultural universities, poultry science education and research forms part of veterinary/agricultural/animal science colleges. Recently, there is a trend towards the establishment of separate Poultry Science Departments in these institutions. The first of them was set up by the Andhra Pradesh Agricultural University (APAU) in Hyderabad.

An All India Coordinated Research Project (AICRP) on Poultry Breeding for developing egg-type and meat-type birds is in progress at twelve centres and sub-centres under the sponsorship of the Indian Council of Agricultural Research (ICAR). The project is being coordinated from CARI.

For the field specialists, the Central Training Institute for Poultry Production & Management (CTIPPM) at Hessarghatta, Bangalore offers courses of short duration in genetics, nutrition, management and marketing.

The Central Food Technological Research Institute at Mysore conducts training courses and disseminates know-how on new methods developed for the processing of poultry products and their better preservation.

Voluntary organizations such as Action for Food Production (AFPRO) in New Delhi organize short-term training courses in different parts of the country.

Poultry Development Officers in the State Departments of Animal Husbandry also guide farmers regarding the facilities available locally within their respective states. Veterinarians in government hospitals and also those running private disease diagnostic laboratories help in tackling diseases and provide vaccination facilities.



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MINISTRY OF AGRICULTURE
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Education, Extension & Research Institutions

Andhra Pradesh

ANDHRA PRADESH AGRICULTURAL UNIVERSITY, Rajendranagar, Hyderabad 500030; Ph: 48011, Gram: Agriversity; Vice-Chancellor: Dr A Appa Rao, Ph: 48035.

Agricultural Research Institute, Rajendranagar, Hyderabad 500030; Ph: 48011. Education: Faculty of Agri, Dean: Dr Subbiah, Ph off: 48197; Faculty of Vet Sc, Dean: Dr C V Reddy, Ph off: 48146, resi: 59369. Extension: Dir: H N Byra Reddy, Ph: 48057. Research: Dir: Dr S Mahaboob Ali, Ph: 48078; Asst Dir (Vet Res): Dr G Narasimha Rao, Ph: 48161.

College of Veterinary Science, Rajendranagar, Hyderabad 500030; Ph: 48164; Estd: 1964; Principal: Dr U B Singh; Dean, Vet: Dr C V Reddy. Education: Dept of Poul Sc; Ph: 48323; Prof & Head: Dr P V Rao; Assoc Profs: Dr S M Siddiqui and Dr D Narasa Reddy; Asst Profs: Dr P S Prakasa Rao and Dr V Rajasekhara Reddy; Supdt, Poul Experimental Station: Dr Eswariah; Asst Res Offr (Livestock Economic Scheme): H K Bhavani; Instructor: K Vidwan Reddy; Poul Specialist: Dr V Ravindra Reddy. Dept of Pathology, Assoc Prof & Head: Dr S M Mohiuddin. Dept of Microbiology: Dr D Dhananjaya Reddy. Offers undergraduate, MVSc and PhD degree courses in poultry science. Extension: Extension Education Institute and Dept of Extension Education; Prof & Head: Dr S Venku Reddy, Ph off: 48161, resi: 48165; Asst Prof (Extn Specialist): Dr Chandra Reddy. Training: Dept of Poul Sc; Short-term Practical training in poultry farming is offered to poultry farmers.

College of Veterinary Science, Tirupati 517502; Ph: 2531; Estd: 1955; Principal: Dr B V Rao. Education: Dept of Poul Sc; Prof & Head: Dr D Subbarayudu; Assoc Profs: Dr S J Reddy, Dr V R Reddy; Asst Profs: Dr M A Naidu, Dr P V V Satyanarayana Reddy. Offers BVSc and MVSc courses in poultry science. Dept of Pathology, Prof & Head: Dr M Rama Rao.

ANDHRA PRADESH STATE MEAT & POULTRY DEVELOPMENT CORPORATION LIMITED, 10-2-289/127, Shantinagar Colony, Hyderabad 500028; Ph: 36681 & 36856, Gram: Mapdec; Mg Dir: Dr C Rajal Rao; Chief Poul Dev Offr: Dr R Subba Rao. Training — Training Centres: Regional Poul Demonstration & Res Farms — Chittoor: Ph: 2647; Cuddapah: Ph: 2530; Guntur: Ph: 22207; Saroornagar: Ph: 59104; Visakhapatnam: Ph: 66583; Dist Poul Farms: Karimnagar, Mahaboobnagar & Warangal (Mamnoor). Offer one-month course; Certificate awarded; Fee: Rs 50; No fee for those selected under self-employment and other government sponsored schemes. Extension and technical consultancy services also offered.

COLLEGE OF AGRICULTURE, Bapatla 522101, Guntur Dist, AP.

FARMERS TRAINING CENTRES — Gopannapalem 534450, W Godavari Dist; Ph: 63; Offers 16 courses (3 days) in basic skills, management and nutrition; No fee; Allowance: Rs 3.50 per trainee per day. Srikalahasti 517644, Chittoor Dist; Ph: 316; Offers 2 short-term (5 days) courses in management, basic skills and nutrition; No fee; Allowance: Rs 5 per trainee per day.

MEDAK AGRICULTURAL TRAINING CENTRE, Medak 502110. Dir: Howard Dalzell.

NATIONAL INSTITUTE OF NUTRITION, Tarnaka, Hyderabad 500007.

NATIONAL INSTITUTE OF RURAL DEVELOPMENT, Rajendranagar, Hyderabad 500030; Ph: 48001, Gram: Gravik; Estd: 1958; Dir-Gen: Dr B C Muthayya; Faculty of Integrated Area Planning, Head: Dr R N Tirpaty.

RAJA REDDY COLLEGE, Pulivendla 516390,
S V AGRICULTURE COLLEGE, Tirupati 517501.
Principal: G H Sankara Reddy.

Assam

ASSAM AGRICULTURAL UNIVERSITY, Jorhat 785013; Vice-Chancellor: Dr D Chaliha.

College of Veterinary Science, Khanapara, Guwahati 781022; Ph: 87281, Gram: Vetcol; Estd: 1948; Dean, Faculty of Vet Sc: Dr H N Sharma. Education: Depts of Anim Production & Management/Anim Nutrition/Pathology, Heads: Dr N N Bora/Dr A Saikia/Dr B Choudhury. Poultry Science offered as a part of Animal Production & Management at undergraduate and postgraduate levels. Extension: Dept of Ext Education, Head: T N Borgohain. Services: Vaccination, disease diagnosis, culling, debeaking, management, marketing, loans, etc.

INSTITUTE OF FARM MANAGEMENT, PO Rani 781132, Dist Kamrup; Estd: 1980; Dir: Dr B R Halder; Offers Short-term, long-term courses in basic skills, management, nutrition and farm economy for rural unemployed educated youth with credit support from financial institutions; 6 months course on composite farming (livestock, crops & fisheries), Stipend: Rs 300 per month.

POULTRY TRAINING CENTRES, Govt of Assam — Baghchung, Jorhat, Sibsagar; Ph: 126; Offr Incharge: Dr B Baruah; Diphu 782460, Karbi Anglong, Mikir Hills; Dr D Bhuyan; Guwahati 781022: Khanapara; Ph: 87370; Dr N Ahmed. Tezpur 784001, Darrang; Dr R R Hazarika. Offer short-term (7 days to 21 days) courses in basic skills, management of poultry and duckery, etc; No fee; Remuneration in cash and in kind.

Bihar

BIRSA AGRICULTURAL UNIVERSITY, Kanke, Ranchi 834006; Estd: 1981; Acting Vice-Chancellor: Dr H R Mishra.

Ranchi College of Veterinary Science & Animal Husbandry, Kanke, Ranchi 834006; Estd:1930;Dean & Principal:Dr A A Khan.

CENTRAL POULTRY FARM, Govt of Bihar, Anisabad, Patna 800002; Ph: 25396; Asst Dir Incharge: Dr S Jalal Ahmed. Training: Short-term training: 10 days; Stipend: Rs 30.

FARMERS TRAINING CENTRE (Kisan Vidyapith), Pusa 847423, Samastipur Dist. Estd: 1969. Dist Training Offr: V Chaudhary. Education: Offers 20 courses in scientific agricultural operations. Training: To farmers/farm women organized by State Dept of AH.

INSTITUTE OF ANIMAL HEALTH, c/o Bihar Veterinary College, Patna 800014; Dir: Dr R S Sharma.

KRISHI GRAM VIKAS KENDRA, PO Neori-Vikas 835217, Ranchi; Proj Mgr: Dr S P Ganpule; Trg Incharge: Dr R I Jayakaran.

KRISHI VIGYAN KENDRA, Divyayan, Ramkrishna Mission Ashram, Swami Vishuddhananda Rd, Morabadi, Ranchi 834008; Trg Organizer & Incharge: S Tiwari.

RAJENDRA AGRICULTURAL UNIVERSITY, Veterinary College Campus, Patna 800014; Vice-Chancellor: Dr J C Bakshi.

Bihar Agricultural College & Agricultural Research Institute, PO Sabour 813210, Bhagalpur.

Bihar Veterinary College, Patna 800014. Dean: Dr R N Singh.

Tirhut College of Agriculture & Research Institute, Dholi 843121, Muzaffarpur Dist; Assoc Dean-cum-Principal: Dr P N Jha.

RANGE POULTRY FARMS, Government of Bihar — Bhagalpur 812002; Muzaffarpur 842001; Short-term training: 10 days; No fee.

REGIONAL POULTRY FARM, Govt of Bihar, PO Hotwar, via Neori Vikas, Ranchi; Estd: 1962; Head: S B Jaruhar,Asst Dir (Poul). Extension: Services: Vaccination, culling, debeaking, supply of inputs, etc. Training: Offers 10-day short-term courses; No fee; Stipend: Rs 30.

XAVIER INSTITUTE OF SOCIAL SERVICE, Purulia Rd, PO Box 7, Ranchi 834001; Ph: 22769, Gram: Axis; Dir: Fr M V D Bogaert, sj.

Delhi

ACTION FOR FOOD PRODUCTION (AFPRO), Community Centre, 25-1A, Institutional Area, Pankha Rd, D Block, Janakpuri, New Delhi 110058; Ph: 552017, 552018,

Gram: Afpro; Estd: 1966. Exec Dir: J B Singh, Ph: 553652; Head, Livestock Dept: Dr R T Kulkarni. Training: Courses in poultry. Provides consultancy and assists in formulating project proposals.

CARITAS INDIA, CBCI Centre, Ashok Place (Gole Dak Khana), New Delhi 110001; Ph: 321990, Gram: Caritas; Exec Dir: Fr P Remigius; Asst Exec Dir: Fr Y Ambroise.

DIRECTORATE OF EXTENSION, Dept of Agri & Cooperation, Min of Agri & RD, GOI, West Block No 8, R K Puram, New Delhi 110066; Ph: 603568, 604839. Jt Sec & Extn Commissr: Dr V Venkatesan, IAS, Ph: 384030; Jt Commissr (Extn): Dr C S S Rao, Ph: 382543; Dir of Admn: R G Banerjee, Ph: 384180.

Extension Training Unit: Joint Commissioner (Training): N Perumal, Ph off: 602694, resi: 383002; Joint Director (Extn): Dr Amar Singh, Ph: 604994; Senior Home Economist: Ms Malati Govilkar, Ph: 601056.

Farm Information Unit: Dir: Smt M Jagannathan, Ph: 603565; Jt Dir (Exhibition): V D Kapoor, Ph: 584610; Editors: Ms Shukla Hazra (Intensive Agriculture), Ph: 600591; R S Madhukar (Home Science), Ph: 601329; Vidyapati Jha (Hindi), Ph: 600591; Business Mgr: John Nag, Ph: 600591.

Field Extension Unit: Dir: S L Ghoshal, Ph: 604839; Jt Dir (T & V): Dr V V Sadamate, Ph: 606048; Extn Offr: Balzoor Singh, Ph: 604994.

Livestock Unit: Asst Livestock Offr: Vacant, Ph: 603568.

Sales Office: Garage No 18-19, Krishi Bhawan, New Delhi 110001; Mailing Supervisor: B D Chawla, Ph: 387316.

GOVERNMENT POULTRY FARM, Delhi Administration, via Mehrauli, Satbari, New Delhi 110030; Ph: 650914; Supdt: Dr R Muddarangaiah. Training: 4-week training twice a year in April and October; 15-day training to SC/ST.

INDIAN AGRICULTURAL RESEARCH INSTITUTE, Pusa, New Delhi 110012; Offg Dir: A M Michael, Ph: 581493; Jt Dir (Extn): Dr S N Singh, Ph: 581490; Head, Library Services: T A V Murty, Ph: 587438.

INDIAN AGRICULTURAL STATISTICS RESEARCH INSTITUTE (ICAR), Library Avenue, New Delhi 110012; Ph: 581479, Gram: Agriresta; Dir: Prof Prem Narain; Div of Sample Survey Methodology & Analysis of Survey Data, Head: Dr O P Kathuria. Conducts research in experimental designs, sampling methods, statistical genetics, computer programming and data processing. Conducts postgraduate courses for training professional statisticians and in-service training for agricultural scientists. Provides advisory and consultancy services.

INDIAN COUNCIL OF AGRICULTURAL RESEARCH (ICAR), Krishi Bhavan, Dr Rajendra Prasad Rd, New Delhi 110001; Ph:388991, Gram: Agrisec, Tlx: 031-62249 ICAR IN; Estd: 1929. Dir-Gen: Dr N S Randhawa, Ph: 382629; Dep Dir-Gen (Anim Scs): Dr R M Acharya, Ph: 382545; Asst Dir-Gen (Anim Production & Breeding): Dr C L Arora, Ph: 389526; Asst Dir-Gen (Dairying & Anim Products Technology): Dr S C Jain, Ph: 387516; Asst Dir-Gen (Econ Studies & Mgmt): Dr C C Maji, Ph: 384369; Asst Dir-Gen (Anim Health): Dr C Natarajan, Ph: 381997; Asst Dir-Gen (Anim Sc Ed): Dr P B Mathur, Ph: 389216; Sr Scientist (Anim Genetics & Breeding): Dr S C Chopra, Ph: 388991/527; Sr Scientist (Anim Husbandry): Dr M N Malhotra, Ph: 388991; Sr Scientist (Fisheries): Dr M Y Kamal, Ph: 388991/459; Sr Scientist (Anim Nutrition & Physiology): Vacant; Sr Scientist: Dr P S R C Murti, Ph: 389388; Sr Scientist: Dr N C Ganguli; Sr Scientist (Anim Sc Ed): Dr M Aravindan, Ph: 389116; Dir (Publication & Information): Dr V S Bhatt, Ph: 389110; Chief Editor (English): P L Jaiswal, Ph: 5721004; Chief Editor (Hindi): R D Sharma, Ph: 389110; Chief, Publicity & PRO: S K Sharma, Ph: 389106; Editor (Anim Scs): R R Lokeshwar, Ph:5721004; Chief Librarian: S Moitra, Ph: 389570.

Agricultural Research Information Centre (ARIC), ICAR Bhawan, New Delhi 110012; Info Systems Offr: P C Bose, Ph: 587121 ext 294.

INDIAN INSTITUTE OF BIOTECHNOLOGY, c/o Tata Energy Research Institute, 90 Jor Bagh, New Delhi 110003; Ph: 693923.

KUSHAL'S CHICK SEXING SCHOOL, 12-A Sultanpur Extension, Mehrauli, New Delhi 110030; Ph:652844—Kushal Singh Bisht.

NUTRITION FOUNDATION OF INDIA, B-37 Gulmohar Park, New Delhi 110049; Chmn: Dr C Gopalan.

For leisure reading, review articles, market data and management guide would update you on latest trends in the industry.

Goa

DEPARTMENT OF ANIMAL HUSBANDRY & VETERINARY SERVICES, Panaji; Dir: Dr A S Wagle, Ph: 5381; Subject Matter Specialist (Poul): Dr A Sequeira Nazareth. Extension: Govt Poultry Farm, Ela, Old Goa; Farm Mgr: Dr A V Pai; Services: Supply of HH-260 chicks, vaccination, debeaking, management, loans, etc. Training: Stockman Training Centre, Curti, Ponda; Subject Matter Specialist (KVS): Dr A V N Khandeparkar; Offers short-term courses to farmers and one-year course to veterinary assistants.

GOVERNMENT OF GOA, Dept of AH & Vet Services; Poultry Ext-cum-Demonstration Centres: Canacona, Daman, Sanguem, Satari.

Gujarat

GOVERNMENT OF GUJARAT, Dte of Animal Husbandry, Poultry Training Centres: Chanvai (Valsad), Dahod (Panchamahals), Himatnagar (Sabarkantha), Jamnagar, Junagadh, Makarba (Ahmedabad), Palanpur (Banaskantha), Rajkot, Surat, Vadodara.

GUJARAT AGRICULTURAL UNIVERSITY, Sardar Krishinagar 385506, PO Dantiwada, Banaskantha Dist. Vice-Chancellor (acting): Dr M R Patel.

Faculty of Veterinary Science & Animal Husbandry, Dean: Dr M R Patel; Dept of Anim Scs, Anand Campus; Head: Dr A D Dave, Ph off: 3464, resi: 3357.

College of Veterinary Science & Animal Husbandry, Anand Campus, Anand 388001, Kheda Dist; Ph: 3464, Gram: Gujvet; Principal: Dr M R Patel. Education: Dept of Livestock Production, Head: Dr A D Dave; Dept of Anim Genetics & Breeding, Head: Dr R K Shukla; Dept of Pathology, Prof: Dr D D Heranjal; Poultry production offered as a special undergraduate course in IV semester of the BVSc and AH degree courses; Duration: One semester; Various courses in poultry science are also offered at postgraduate level. Extension: Dept of Pathology; Offers poultry courses (3-month) for farmers; Services: Diagnosis, post-mortem.

Central Poultry Research Station: Poultry Training Centre, Anand Campus, Anand, Kheda Dist; Ph: 3431 ext 267, Gram: Gujvet; Offr Incharge: Dr R K Shukla. Training: Offer three short-term (10 weeks) training courses beginning from July, Oct, Jan, in poultry production, nutrition, breeding, disease, hatching, incubation and marketing of poultry products; Qualifications: Knowledge of Gujarati; No fee; Deposit of Rs 30; Stipend of Rs 45 pm to Backward Class students.

College of Veterinary Science & Animal Husbandry, Dantiwada Campus, Sardar Krishinagar 385506, Dist Banaskantha; Ph: 39, Gram: Krushi; Estd: 1981; Principal: Dr V M Jhala. Education: Dept of Livestock Production & Mgmt, Head: Dr N S Radadia.

Livestock Research Station, Dantiwada Campus, Sardar Krishinagar 385506; Ph: 39; Research Scientist Incharge: Dr V M Jhala. Extension: Services: Vaccination, disease diagnosis camps, feed analysis, mobile extension unit (also attends emergency calls). All services free, except fuel charges for emergency calls.

Livestock Inspector Training Centre, Dantiwada Campus, Sardar Krishinagar 385506; Ph: 39; Offr Incharge: Dr V M Jhala; 2-year course in dairying/animal husbandry.

INSTITUTE OF RURAL MANAGEMENT, Post Box No 60, Anand 388001; Ph: 3100, 3101, Gram: Irma, Tlx: 0172-207; Estd: 1979; Dir: R N Haldipur, Ph off: 3117, resi: 3666. Education: Offers two-year postgraduate programme in Rural Management.

KRISHI VIGYAN KENDRA, Gujarat Agricultural University, Deesa 385535, Banaskantha Dist; Training Organizer: P M Patel.

TATA MARGINAL FARM MANAGEMENT INSTITUTE, Tata Baug, Lunsikui, Navsari 396445; Head: Dr S K Das. Objectives: Train educated youngmen from rural India on management aspects of small composite farms, which includes agriculture, dairy, poultry and fishery. Agricultural marketing, accounting, bookkeeping, farm planning and budgeting, and other associated subjects related to complete management of the farm. Duration: Six months. Tution fees: Rs 20 pm. Medium of instruction: English.

Haryana

EXTENSION EDUCATION INSTITUTE, GOI, Nilokheri 132117, Karnal Dist; Principal: C L Gupta, Ph: 27, 33 (resi); Vice-Principal: G A Kaleem; Lecturer, Anim Husbandry: Dr Rampal Singh.

HARYANA AGRICULTURAL UNIVERSITY, Hissar 125004; Ph: 3721, Gram: Agriversity. Vice-Chancellor: L D Kataria, IAS. Postgraduate Studies, Dean: Dr R P Kapil, Ph: 3721 ext 219; 3789 (resi).

College of Animal Sciences: Ph: 4079, 3721/241; Estd: 1966; Dean: Dr I S Yadava, Ph: 4079, 3721/241, resi: 2843; Dept of Anim Breeding, Head: Dr Daya Singh Balaine, Ph: 3721/262; Assoc Prof: Dr Jitendra Kumar; Poul Geneticist: Dr R K Sharma; Dept of Anim Nutrition, Head: Dr I S Yadava, Ph: 3721/256; Prof: Dr K Pradhan; Prof: Dr Vidya Sagar; Assoc Prof: Dr V P Saxena; Dept of Anim Production Physiology, Head: Dr M N Razdan, Ph: 3721/235; Assoc Profs: Dr D V Arneja & Dr G C Georgie; Dept of Livestock Production & Mgmt, Head: Dr B P Sengupta, Ph: 3721/231; Prof: Dr R A Singh; Res Scientist: Dr C K Agarwal; Extn Specialist: Dr V P Sharma; Dept of Anim Products Technology, Head: Dr P C Panda, Ph: 3816; Assoc Prof: Dr S K Sinha; Dept of Anim Feed Technology, Head: Dr I S Yadava.

Directorate of Research (Animal Husbandry): Dir: Dr R P S Tyagi, Ph: 4068, 3721/216; 3634 (resi); Addl Dir: Dr Mohinder Singh, Ph: 3721/227.

College of Veterinary Sciences, Hissar 125004; Ph: 3621, Gram: Vetcol; Dean: Dr L D Dhingra, Ph: 3621/281; Prof of Eminence: Dr O P Gautam, Ph: 4038/211; 3169 (resi); Dept of Vet Pathology, Head: Dr R K Paul Gupta; Dept of Vet Medicine, Head: Dr R P Singh, Ph: 3621/211.

Directorate of Extension Education: Ph: 3721/285; Dir, Extn Education: Dr D S Bhatti; Extn Specialist (Anim Scs): Dr Kirpal Singh; Extn Specialist (Poul): Dr V P Sharma; Extn Specialist (Vet): Dr S R Bansal. Education: Coll of Anim Scs: Offers full-fledged course in poultry science at MSc level and as part of animal science at undergraduate level; Coll of Vet Scs: Offers courses in poultry pathology and poultry diseases at undergraduate level; at postgraduate level, offers courses in MVSc (2 years) and PhD (3 years) in vet pathology with specialization in poultry pathology. Extension: Dte of Extn Education; Services: Culling, debeaking, management, processing, supply of chicks, custom hatching, etc. Training: Coll of Anim Scs, Dept of Livestock Production and Management (in collaboration with Assoc Dir, Inst of Agril Technology, HAU); Offers 2 or 3 short-term (10-15 days) courses in management; Qualifications: Knowledge of Hindi; No fee; Free lodging.

KRISHI GYAN KENDRAS, Dist Extn Specialists (Vet & Anim Scs) — Ambala City 134001: HAU Farm, near Dist Court; Bhiwani 125021: Vijay Nagar; Gurgaon 122001: HAU Farm, Sohna Rd; Hissar 125004: HAU; Jind 126102: near Bus Stand; Karnal 132001: 360 Ashoka Colony; Kurukshetra: opp Paras Cinema; Narnaul 123001: near Dist Court; Rohtak 124001: near Delhi Rd, Octroi; Sirsa 125055: Shop No 41, New Mandi; Sonepat 131001: C-15 Prem Nagar.

POULTRY ADVISORY & TRAINING SERVICE (PATS), Civil Lines, Gurgaon 122001; Tech Dir: Shabbir Ahmed Khan.

RANDOM SAMPLE TEST UNIT (GOI), 69/4 Urban Estate, Gurgaon 122001; Supdt: Dr Zafar Mahmood.

Himachal Pradesh

HIMACHAL PRADESH KRISHI VISHVA VIDYALAYA, Palampur 176062; Dist Kangra; Ph: 177, Gram: Himkrishi; Estd: 1979; Vice-Chancellor: Dr G C Negi. Education: Anim Sc Dept, Head: Dr M P Narang; Poultry courses offered as part of animal science in BSc Agri. Extension: Advisory service in poultry farming. Research: Poul Res Laboratory; Res Offr: Dr K B D Bhowmik.

College of Agriculture, Palampur 176062; Ph: 138; Estd: 1966; Dept of Anim Sc, Prof & Head: Dr K B D Bhowmik. Education: Poul Sc courses offered as part of animal science in BSc (Agri). Extension: Services: Disease-diagnosis, management, feed analysis. Training: Short-term in basic skills, management & nutrition.

College of Agriculture, Solan, PO Nauni 173212; Dean: Dr G S Dogra; Assoc Prof (Anim Sc): Dr Y C Jain. Education: Poultry courses offered as part of animal science in BSc Agri. Extension:Advisory service in poultry farming.

Jammu & Kashmir

POULTRY TRAINING CENTRES — Jammu 180003: Poul Prcj, Belicharana; Offr Incharge: Dr Suresh Kohli, Ph: 43868; Srinagar 190001: Hariparbath; Offr Incharge: Dr A K Misri. Offer short-term training to poultry farmers.

SHER-E-KASHMIR UNIVERSITY OF AGRICULTURAL SCIENCES AND TECHNOLOGY, Baghi Ali Mardhan Khan, Nowshera, Srinagar 190011; Estd: 1982; Ph: 73459, Gram: Vetfac. Vice-Chancellor: Dr Allahudin Ahmed.

Faculty of Veterinary Science & Animal Husbandry (SKUAST), Baghi Ali Mardhan Khan, Nowshera, Srinagar 190011; Dean: Dr M A Ghafoor; Dean Incharge: Dr Ab Rashid. Education: Dept of Animal Production & Mgmt: Dr S G Nabi; Jt Scientists: Dr A A Teli (Nutrition), Dr Karnail Singh (Anim Breeding). Poultry Science, husbandry and management including breeding, feeding, etc offered at BVSc level. Extension: University Chief Scientist Extension Education (SKUAST), Camp Shalimar, Srinagar. Services: Land to Lab programme, farm visit, vaccination, post mortem, etc.

Karnataka

CENTRAL DUCK BREEDING FARM, Govt of India, Hessarghatta, Bangalore 560088; Ph: 384303, 38 (HGT); Dir: Dr V D Bulbule.

CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, Cheluvamba Mansion, Mysore 570013; Ph: 22660, Gram: Foodsearch, Tlx: 864-241 FTRI IN; Estd: 1950; Dir: Dr B L Amla. Education: Offers MSc (Food Tech); 3rd Semester - Electives: Meat and poultry technology; also offers short-term courses in meat, fish and poultry technology. Research: Discipline of Animal Products Technology; Ph: 22718 (49); Area Coordinator & Head: Dr M A Haleem; Services: Processing of poultry products/animal products/convenience and fast foods, egg and egg products; Preservation, quality control, storage and market studies.

CENTRAL POULTRY BREEDING FARM, Govt of India, Hessarghatta, Bangalore 560088; Ph: 384303, 36 (HGT); Dir: Dr K Amrutha Reddy, Ph resi: 56 (HGT).

CENTRAL TRAINING INSTITUTE FOR POULTRY PRODUCTION AND MANAGEMENT (CTIPPM), Govt of India, Hessarghatta, Bangalore 560088; Ph: 26 (HGT); Estd: 1971. Dir: Dr M R Choudary; Management Specialist: Dr A Mitra, Ph: 40 (HGT); Mktg & Technology Specialist: Dr K Nageswara Rao, Ph: 39 (HGT). Training — Offers six advanced courses each year in (i) Poultry Genetics and Breeding (8 weeks); (ii) Poultry Management and Farm Economics (8 weeks); (iii) Poultry Nutrition and Feeding (8 weeks); (iv) Duck Production and Management (8 weeks); (v) Poultry Processing and Technology (6 weeks); (vi) Marketing of Poultry and Poultry Products (6 weeks). Qualifications: BVSc/BSc (Agri)/BSc (Anim Sc) with experience in specialization. Offers laboratory courses in: (i) Feed Analytical Techniques (8 weeks); (ii) Aflatoxin Assay (4 weeks); (iii) Poultry Products Formulary (4 weeks); (iv) Chick Sexing (Vent Method: 12 weeks); Special Course on Poultry Husbandry for GIC/Bank Officers (2 weeks) and Workshop-cum-Seminar for inservice officers. Technical advice and guidance for poultry farmers/private sector/ State organisations is available through specialists of the Institute. A well equipped reference and service laboratory for analysis of feed/ingredients for both public and private sector.

DEEJAY GROUP TRAINING CENTRE, St Patrick's Complex, 3rd floor, Brigade Rd, Bangalore 560025; Ph: 579245, 562738, 562749, Gram: Babcock, Tlx: 0845-604; Mgr, Tech Services: Leo Antony. Training: Theoretical and practical aspects of poultry farming to prospective farmers. Duration: Two weeks (four courses per year). Fees: Rs 300.

DHARMARAM COLLEGE, Poultry Farm, Bannerghatta Rd, Bangalore 560029; Ph: 40381; Farm Dir: Fr George Kunnath.

KRISHI VIGYAN KENDRA, c/o Indian Inst of Horticultural Res, Horticultural Expt Station, Chethalli 571248, Kodagu Dist; Ph: 35, Gram: Hortus; Head: Dr K C Srivastava.

NABARD REGIONAL GRAMINA BANK TRAINING CENTRE, Suvarna Complex, Kulur, Mangalore 575013; Principal: U S Rao.

RANDOM SAMPLE LAYING TEST UNIT, Govt of India, Hessarghatta, Bangalore 560088; Supdt: Dr S R Joshi; Ph: 41 (HGT) & c/o 384303 (Bangalore).

REGIONAL POULTRY FARMS, Govt of Karnataka --Asst Dir,Offr Incharge--Bidar 585401: Dr M Ahetramuddin Ahamed, Ph: 578; Bijapur 586101: Behind Golagumbaz; Dr B B Kulkarni, Ph: 243 (Vet Hospital); Davangere 577001: Chitradurga Dist; Dr R T Krishna Reddy; Gangavathi 583227: Raichur Dist; Dr A Mallappa, Ph: 1028; Gulbarga 585101: Dr Diwankar, Ph: 491; Gundlupet 571111: Mysore Dist; Dr R Dasaratha Rao; Haveri 581110: Dharwar Dist; Dr K B Viraktamath, Ph: 273; Kolar 563101: Dr L Krishna Urs, Ph: 297; Kudige 571232: Dr M S Marthanda Murthy Rao, Ph: 81; Malavalli 571430: Mandya Dist; Dr H S Diwakar, Ph: 14; Mangalore 575001: South Kanara Dist; Dr N Sadashiva Navade, Ph: 23891. Extension: Services: Disease diagnosis, vaccination, post-mortem, culling, debeaking, marketing, management, supply of chicks, etc. Training: Offer short-term courses in basic skills and management.

STATE POULTRY FARM, Dept of AH & Vet Services, Govt of Karnataka, Hessarghatta, Bangalore 560089; Ph: 384377; Estd: 1948; Sr Asst Dir: Dr B Yogananda. Training: Offr Incharge: Dr B S Viswanath; Offers five courses (20 days duration) in management.

UNIVERSITY OF AGRICULTURAL SCIENCES, Hebbal, Post Bag No 2477, Bangalore 560024; Ph: 365383, Gram: Univagris; Estd: 1965. Vice-Chancellor: Dr S V Patil. Education: Head: Dr B S Ramappa; Postgraduate courses: MVSc (Poul Sc) for Veterinary & MSc (Poul Sc) for Agriculture graduates — 2 years; Postgraduate Dip courses in Poul Production for BVSc & BSc (Agri) graduates — 1 year. Extension: Dir of Extn: Dr K A Jalihal; Head: Dr B S Ramappa; Services: Vaccination, disease diagnosis, culling, debeaking, management, feed analysis, supply of broiler chicks and training to farmers. Research: Dir of Res: Dr K Krishnamurthy; Head: Dr B S Ramappa.

Agricultural College, Dharwad 580005; Gram: Agrisearch; Estd: 1947; Head: Dr R B Patil. Education: Div of Anim Scs: Dr M D Harapanahalli & Dr S Mallikarjunappa; Teaching course in poultry science. Extension: Services: Disease diagnosis, feed analysis, farm visits, supply of chicks, advice on poultry.

Regional Research Station, Animal Sc Wing, Univ of Agril Scs, Dharwad 580005; Ph: 80191, Gram: Univagris. Education: Offers teaching for BSc (Agri), BSc (Agri Mktg) & BHSc. Extension: Provides facilities for training to farmers; Farm visits undertaken.

Veterinary College, Hebbal, Bangalore 560024.

Kerala

CENTRAL HATCHERY, Angadical South PO, Chergannur 689122, Alleppey Dist; Ph: 277, Gram: Hatchery; Production Mgr: Dr K O Oommen; Extn Wing, Incharge: Dr Jacob Thomas; Extn Offr: Dr M G George. Training: Offers short-term (1 to 2 months) in poultry husbandry to farmers and Extension Officers. One day condensed training to broiler farmers.

CHICK SEXING SCHOOL, Central Hatchery, Angadical South PO, Chengannur 689122, Alleppey Dist; Ph: 277, Gram: Hatchery; Sr Instructor: T A Mathew. Offers 4 to 5 month short-term training in vent sexing by Japanese method. Qualifications: SSLC; Age: Below 25 years with good vision; Fee: Rs 500; For candidates outside the State Rs 750.

KERALA AGRICULTURAL UNIVERSITY, Main Campus, Vellanikkara 680654, Trichur Dist; Ph: 23034, Gram: Agriversity; Estd: 1972; Vice-Chancellor: T Madhava Menon, IAS. Education: Faculty of Vet & Anim Scs, Dean: Dr M Krishnan Nair; Dept of Poul Sc, Head: Dr A Ramakrishnan. Dept of Poul Sc offers separate course in poultry science for BVSc and AH students as well as MVSc and PhD programmes. Also offers a 9-month specialised diploma course in poultry science to AH Dept officers of Kerala. Extension: Dir of Ext Education: Dr A G C Menon. Dept of Poul Sc conducts short-term training programme for poultry farmers, inservice personnel from State Dept of AH, para-veterinary staff from Lakshadweep, pre-release defence personnel, etc. Services: Vaccination, disease diagnosis and technical services. Research: Dir of Res:

Dr P C S Nair; Sr Scientist, AICRP on Poul for Eggs: Dr A Ramakrishnan. Undertakes research projects in poultry and duck production.

College of Veterinary & Animal Sciences, Mannuthy 680651; Estd: 1955; Ph: 22344. Education: Dept of Poul Sc, Head: Dr A Ramakrishnan (Poul Nutrition); Dr A K K Unni & Dr G Raghunathan Nair (Poul Breeding): Dr R S Nair (Poul Management); Dr C K Venugopalan (Poul Technology & Mktg), Dr A Jalaludeen & Dr (Mrs) V K Elizabeth (Poul Nutrition). Offers undergraduate level courses, postgraduate courses leading to MVSc and PhD in poultry science. Short-term courses in various aspects of poultry production are also offered. Education: Dept of Extn, Head: Dr P S Pushkaran; Services: Vaccination and farmer counselling. Dept of Pathology, Head: Dr A Rajan; Services: Disease diagnosis. Dept of Nutrition, Head: Dr E Sivaraman; Services: Feed Analysis. Univ Poul & Duck Farm, Mannuthy; Services: Supply of chicks and ducklings. Training: Dept of Poul Sc and Dte of Extn Education.

LIVESTOCK MANAGEMENT TRAINING CENTRE, Mundayad 670597, Cannanore Dist; Principal Training Offr: Dr P P Krishna Iyer.

Madhya Pradesh

CENTRAL INSTITUTE OF AGRICULTURAL ENGINEERING (ICAR), Shri Tegh Bahadur Complex, Additional "A" Block, New Market, T T Nagar, Bhopal 462003; Ph: 63618, Gram: Kriyantra, Tlx: 0705-273; Dir: Dr T P Ojha, Ph resi: 62384.

JAWAHARLAL NEHRU KRISHI VISHWA VIDYALAYA, Krishinagar, Adhartal, Jabalpur 482004; Ph: 23771, Gram: Krisiviswa; Estd: 1964; Vice-Chancellor: Prof S V Arya, Ph: 23974.

Faculty of Veterinary Science & Animal Husbandry, Dean: Dr B S Malik, Ph: 25783, 22210 (resi).

College of Veterinary Science & Animal Husbandry, South Civil Lines, Jabalpur 482001; Dean: Dr B S Malik, Ph: 25783, 22210 (resi). Departments: Dept of Poul Sc, Prof & Head: Dr A G Khan; Jr Pathologist (Poul): Dr R L Chakraborti; Farm Mgr: Dr M V Poulose; Asst Profs: Dr J K Bhardwaj, Dr R P Nema, Dr K K S Baghel; Statistician: Dr H R Sharma. Dept of Vet Pathology, Prof & Head: Dr J L Vegad. Dept of Anim Nutrition & Food Technology, Prof & Head: Dr S P Netke. Dept of Vet Parasitology, Prof & Head: Dr H L Shah. Dept of Vet Med, Assoc Prof & Head: Dr K N P Rao. Education: Dept of Poul Sc; Offers PhD, 2 year MVSc course and one-year Postgraduate diploma in poultry science. Extension & Training: Dept of Poul Sc; Wide range of services offered free, including vaccination, debeaking, etc; Offers refresher courses of eight days duration to farmers and offers certificates. Dept of Vet Pathology; Services: Disease-diagnosis, post-mortem.

College of Veterinary Sciences & Animal Husbandry, Mhow 453441; Ph: 222/240, Gram: Vetcollege; Estd: 1955; Dean: Dr K S Johar. Departments — Anim Genetics & Breeding: Dr D N Saha; Anim Production & Mgmt: Dr F H Khan; Nutrition: Dr M U Bhaid; Extn: Dr R M Bakshi; Biochemistry: Dr R C Dhir; Physiology: Dr S C Adaval; Pharmacology: Dr D V Shilaskar; Anatomy: Dr G P Tiwari; Microbiology: Dr P N Pathak; Parasitology: Dr P C Jain; Pathology: Dr V S Richhariya; Med: Dr P G Supekar; Surgery: Dr S K Nakra; Obstetrics & Gynaecology: Dr R A S Chauhan; Poultry: Dr V P Kumar; Statistics: I S Chhabra. Education: Offers courses in poultry disease, breeding, nutrition, etc, both at graduate and undergraduate level. Extension: Services: Vaccination, debeaking, disease diagnosis, post-mortem, feed analysis; No fee; Farm visits undertaken; Mobile van available.

College of Agriculture, Raipur; Ph: 24608; Dept of Anim Production & Mgmt, Asst Prof & Head: Dr P K Jain; Offers undergraduate course on poultry production and management. Extension services available.

College of Agriculture, Rewa; Ph: 2459; Dean: Dr M M Rai.

KRISHI VIGYAN KENDRA & TRAINERS' TRAINING CENTRE, c/o Kasturba Gandhi National Memorial Trust, Kasturbagram, Indore 452020; Ph: 5265, Gram: Kasturbagram. Estd: 1950. Sec: Dr Santosh Goindi; Chief Training Organizer: Dr W R Deshpande. Extension: Services: Vaccination, disease diagnosis, management, feed analysis, mobile extension units.

Training: Short-term courses for farmers/farm women in management and nutrition.

POULTRY TRAINING SCHOOL, Chirahulla, Rewa 486001; Principal: Dr M N Shrivastava. Offers one-month course to private poultry farmers, two 3-month training courses for VAS and one-year course for Vet Assts, in basic skills, management, nutrition, practical training in poultry husbandry and technology;No fee.

Maharashtra

ANAND NIKETAN COLLEGE OF AGRICULTURE, Warora 442914, Dist Chandrapur; Head, Dept of AH & Dairy Sc: Dr R G Naolakhe.

BHARATIYA AGRO-INDUSTRIES FOUNDATION (BAIF), THE, 'Kamdhenu', Senapati Bapat Marg, Pune 411016; Ph: 52621-3, Tlx: 0145-283, Gram: Baifon; Estd: 1967; Dir: Dr Manibhai Desai; Chief Exec: Dr D S Gorhe; Anim Health Div, Gen Mgr: Dr N S Datt. Objectives: BAIF is a research organization working for the development of the rural man through application of science and technology. It operates over 200 rural development centres in Maharashtra, Karnataka, Gujarat, Rajasthan, Madhya Pradesh and Uttar Pradesh. BAIF is recognized as (i) Project holder by GOI for bilateral overseas assistance; (ii) R & D laboratory by GOI's Dept of Sc & Tech; (iii) Affiliate institute for PG studies in agriculture and animal sciences by Mahatma Phule Krishi Vidyapeeth, Rahuri; and (iv) Institute for PG studies and research in microbiology reproductive physiology, nutrition and biochemistry by the Univ of Poona and Konkan Krishi Vidyapeeth, Dapoli.

BAIF Research Institute for Cattle and Agricultural Development (BRICAD), Urli-Kanchan 412202, Pune Dist; Ph: 248, 265. Dir: Dr Manibhai Desai; Chief Exec: Dr D S Gorhe. Research Projects: Animal genetics, nutrition, land and water conservation, fodder and energy plantation, veterinary biologicals including pharmaceuticals.

BAIF Research Institute for Animal Health (BRIAH), Briahnagar, off Pune-Nagar Rd, PB No 1, Wagholi 412207, Pune Dist; Ph: 70408, 70409; Gen Mgr: Dr N S Datt.

CENTRAL HATCHERIES, Poultry Extension Centres — Kolhapur 416002; Offr Incharge: A V Joshi; Pune 411003; Offr Incharge: Karyakarte. Training: Offer 6 short-term courses, each of one month; Qualifications: Working knowledge of Marathi/English.

CENTRAL POULTRY BREEDING FARM, Govt of India, Aarey Milk Colony, Bombay 400065; Ph: 692515; Incharge: Dr A C Kanhar.

FARMERS TRAINING CENTRE, Mass Training Scheme, Karjat 410201, Raigad Dist. Extension: Offr Incharge: Dr Bhalde; Services: Vaccination, disease diagnosis, etc; Farm visits undertaken. Training: Offr Incharge: P B Shirolkar; Offers 20 courses (5 days) in basic skills and management; No fee.

INSTITUTE OF POULTRY MANAGEMENT OF INDIA, Vill Khamgaontek, PO Uruli-Kanchan 412202, Tal Haveli, Dist Pune; Ph: 445908 (Pune); Chmn: B V Rao; Adviser, Mgmt Training: Air Marshal H R Chitnis, Ph off: 79207; Dir: Dr A L Bhagwat.

KONKAN KRISHI VIDYAPEETH, Dapoli 415712, Ratnagiri Dist; Estd: 1972; Vice-Chancellor: Dr P V Salvi, Ph: 64, 15 (resi).

Faculty of Agriculture: Dean: Dr S B Kadrekar; Head, Dept of AH & Dairy Sc: Dr S V Majgaonkar, Ph: 25 & 94 (resi).

Bombay Veterinary College, Parel, Bombay 400012; Ph: 442793, 441180, Gram: Bovet; Estd: 1886; Prof of Eminence: Dr S M Ajinkya; Assoc Dean: Dr P D Sardeshpande, Ph: 440162. Education: Dept of Poul Sc, Assoc Prof: Dr B V Rajmane; Dept of Pathology, Parasitology and Microbiology, Head: Dr P D Sardeshpande; Asst Prof (Avian Pathology): Dr B B Solanki. Dept of Pharmacology, Medicine & Toxicology, Head: Dr V S Bhave. Dept of Nutrition, Physiology & Anatomy, Prof & Head: Dr B A Kulkarni; Prof, Anim Nutrition: Dr P M Puntambekar. Poultry science offered as a major field of specialization of two-year postgraduate degree courses in animal sciences. Extension: Services: Vaccination, disease diagnosis, post-mortem, culling, debeaking, advisory services on management and treatment of birds, feed analysis. Training: Offr Incharge & Assoc Prof: Dr B V Rajmane. Offers 1 to 2 months short-term courses in basic skills, management and feeding Qualifications: Literate.

KRISHI VIGYAN KENDRA, Agril Inst, Kosbad Hill 401703, Thane Dist; Principal &

Incharge: Dr J S Patil.

MAHATMA PHULE KRISHI VIDYAPEETH, Rahuri 413722, Ahmednagar Dist; Ph: 65, Gram: Krishivid; Vice-Chancellor: Dr D K Salunke.

Faculty of Animal Science & Dairy: Dean: Dr I G Chauhan. Dept of Anim Sc, Head: Dr E M Sangle. Education: Dept of Anim Sc & Poul Sc, Head; Ph: 65 ext 32. Extension: Dept of Agril Extn, Head: Dr T S Khuspe; Services: Vaccination, disease diagnosis, management, feed analysis, farm units, mobile extn units; No fee.

College of Agriculture, Kolhapur 416004; Ph: 5341, Gram: Prinagri. Extension: Dept of Agril Extension, Head: Prof Y B Joshi; Guidance to establish farms, arranging seminars, etc is done. Training: Livestock Supervisors' Training one year course; Dept of Anim Sc & Dairy Sc, Head: Prof E M Sangle; One year certificate course in basic skills, management, nutrition.

College of Agriculture, Pune 411005; Ph: 56361, Gram: Prinagri; Estd: 1907. Assoc Dean: Dr K S Pharande. Education: Dept of Anim Sc, Agril Coll Dairy, Pune 411005; Ph: 57091; Poul Mgr: S G Jadhav. Poultry science offered as part of animal science in the four-year degree course in Agriculture.

MARATHWADA AGRICULTURAL UNIVERSITY, Parbhani 431402; Ph: 301, Gram: University; Vice-Chancellor: Dr N G P Rao.

College of Veterinary & Animal Sciences, Parbhani 431402; Ph: 301/24; Estd: 1972; Assoc Dean: Dr Kulkarni. Education: Dept of Poul Sc; Poul Sc offered as part of BVSc & AH and as a fullfledged course in MVSc. Extension: All types of Vet & AH services including mobile unit for treatment of animals.

College of Agriculture, Parbhani 431402; Ph: 301, Gram: Prinagri; Estd: 1956. Education: Dept of AH & Dairying, Prof & Head: Prof S G Rotte; Profs: Dr P M Patel, Dr P S Waghmare, Dr P M Khedkar, A S Pawar, L M Karanjkar, S B Lad, P N Zanjad, B V Gujar, A T Sontakke, R P Barbind. Poultry Science offered at graduate and postgraduate level.

College of Agricultural Technology (Food Technology), Parbhani 431402; Ph: 301/50; Estd: 1976; Assoc Dean & Principal: Dr U M Ingle. Departments: Biochemistry & Nutrition : Food Sc & Tech; Anim Products Tech; Food Engg; Food Mircobiology. Education: Offers courses in BTech (Food Sc) with basic courses in Microbiology, Biochemistry, General Engg, Quality Control, Human Nutrition and MTech (Food Sc) with courses. Extension: Group discusions, radio talks, field demonstrations, demonstrations through youth clubs, mahila mandals, Balwadi, Anganwadi, etc. Training: Farmers/farm women, gramsevaks. Research: UNICEF/ICAR sponsored education in food & nutrition in Agril Universities programme.

NATIONAL INSTITUTE OF WASTE RECYCLING TECHNOLOGY, A-18 Juhu Apartments, Juhu Rd, Santa Cruz (W), Bombay 400049; Ph: 543517; Dir: Dr T M Paul. Offers consultancy services on waste management by recycling, biogas, liquid compost, intergated rural development, mixed farming, etc.

PUNJABRAO KRISHI VIDYAPEETH, Krishinagar, Akola 444104; Ph: 5372, Gram: University, Tlx: 0725-215 PKV IN; Estd: 1969. Vice-Chancellor: Dr K R Thakare, Ph: 5365, 5184 (resi).

Faculty of Veterinary Science, Dean: Dr A S Kaikini.

Postgraduate Institute, Akola 444104; Ph: 5974, 4471, 4472/22; Estd: 1972. Poultry Research Centre. Education: Dept of Anim Genetics & Breeding, Extn & Mgmt, Prof & Head: Dr D N Dharmadhikari; Asst Prof (Poul): Dr B S Barmase. Extension: Services: Management, feed analysis. Training: Offers four short-term courses of 60-90 days duration in management. Qualification: Higher Secondary; No fee.

Faculty of Agriculture, Akola 444104; Ph: 5493; Dean: Dr W B Rahudkar, Ph: 5263 (resi). Education: Dept of AH & Dairy, Prof & Head: Prof V M Gorantiwar, Ph: 4471 ext 16; Offers courses as part of BSc (Agri) and MSc (Agri). Extension: Dir of Ext Education: Prof V T Rahate, Ph: 4471 ext 24; Services: Offers regular courses in management, correspondence courses, disease diagnosis camps. Training: Krishi Vigyan Kendra, Dept of AH & Dairying; Offers training for farmers and self-employed.

Nagpur Veterinary College, Seminary Hills, Nagpur 440006; Ph: 32159, Gram: Vetycollege; Assoc Dean: Dr M K Joshi-

rao. Education: Dept of Anim Genetics & Breeding, Prof & Head: Dr R N Deb; Dept of Anim Husbandry, Head: Dr V R Thatte; Asst Prof: Dr A M Pande; Dept of Anim Nutrition & Dairy Sc, Head: Dr M R Kaduskar; Reader: Dr B S Thakur; Dept of Pathology, Head: Dr S S Bhagwat. Extension: Dept of Ext, Head: Dr P B Saigaonkar. Offr Incharge, Vet Polyclinic: Dr R C Kunthawar. Poultry Farm Mgr: Dr M M Teware. Services: Disease diagnosis and treatment.

RANDOM SAMPLE LAYING TEST UNIT, Govt of India, c/o Central Poultry Breeding Farm, Aarey Milk Colony, Bombay 400065; Ph: 692515; Supdt: Dr M S Kirloskar.

RESERVE BANK OF INDIA, College of Agricultural Banking, Ganeshkhind Rd, Pune 411016; Ph: 53292; Principal: Sugavanam, Ph: 57956.

SHRI SHIVAJI AGRICULTURE COLLEGE, Shivaji Nagar, Morshi Rd, Amravati 444603; Ph: 3678, Farm: 3945; Principal: H P Ulemale, Ph resi: 3425.

Manipur

CENTRAL POULTRY FARM, Dte of Vet Services & AH, Govt of Manipur, Imphal; Farm Mgr: Dr Indu Singh; Asst Farm Mgr: Dr Pakchao.

FARMERS TRAINING CENTRE, Govt of Manipur, Imphal 795001.

Meghalaya

ICAR RESEARCH COMPLEX FOR NORTH EASTERN HILLS REGION, Mawlai, Shillong 793008; Ph: 23748, Gram: Agricomplex; Dir: Dr D N Borthakur.

POULTRY FARMER'S TRAINING CENTRE, Central Hatchery-cum-Poultry Farm, Bhoi, Nayabunglow, East Khasi Hills, PO Nayabunglow 793105; Offr Incharge: Dr G C Das. Training: Offers three one-month ccurses, commencing frcm Dec, Jan, Feb & Mar, in basic skills, management, nutrition, disease contrcl, chick sexing; No fee; Stipend: Rs 100 per month.

Not listed in this edition???
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Mizoram

KRISHI VIGYAN KENDRA, Dte of Agriculture, Kolasib 796101; Agronomist & Incharge: P Saidinga.

Nagaland

KRISHI VIGYAN KENDRA & TRAINERS TRAINING CENTRE IN HILL AGRICULTURE, ICAR Res Complex, Jharnapani, PO Ghaspani 797106; Principal IETC & Incharge: B S Rana.

STATE POULTRY FARM, Govt of Nagaland, Kohima 797001; Offr Incharge: Dr L Sorhie, Dist Vet Offr, Ph: 768.

Orissa

CENTRAL POULTRY BREEDING FARM, Govt of India, Bhubaneswar 751013; Ph: 51875, Gram: Regpofarm; Dir: Dr S Ranjan.

INSERVICE TRAINING CENTRE, Dept of AH, Govt of Orissa, Bhanjanagar 761126. Poul Lecturer: Dr L N Das.

ORISSA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY (OUAT), Bhubaneswar 751003; Ph: 50732. Vice-Chancellor: K Ramamurthy, IAS (retd).

Orissa College of Veterinary Science and Animal Husbandry, Faculty of Vet Sc & AH, Dean: Dr B C Nayak. Education: Dept of Anim Breeding & Genetics, Head: Dr B N Patro; Dept of Anim Nutrition, Prof & Head: Dr N C Panda; Dept of Anim Production, Prof & Head: Dr M Mishra; Dept of Pathology, Head: Dr A T Rao; Dept of Bacteriology, Prof & Head: Dr S N Panda; Dept of Parasitology, Prof & Head: Dr S C Mishra; Dept of Med, Prof & Head: Dr S B Tripathy; Dept of Surgery, Prof & Head: Vacant; Dept of Gynaecology, Head: Dr B N Mohanty; Dir of Clinics: Dr P C Dey; Dept of Physiology & Pharmacology, Head: Dr A Mishra; Dept of Anatomy, Head: Dr L N Das. Extension: Sectional Head: Dr B B Rath, Farm visits undertaken; Disease-diagnostic services offered by Depts of Pathology, Parasitology and Bacteriology.

RANDOM SAMPLE TEST UNIT, Govt of India, c/o Central Poultry Breeding Farm, Bhubaneswar 751013; Ph: 51875; Supdt: Dr S Ranjan.

Pondicherry

KRISHI VIGYAN KENDRA, Tamil Nadu Agril Univ, Pondicherry 605010; Principal: Dr K R Raman.

Punjab

CENTRAL POULTRY BREEDING FARM, GOI, Industrial Area, Chandigarh 160002; Ph: 24461, 41491, Gram: Regpofarm; Dir: Dr Harpal Singh. Extension and technical services provided free of cost.

FARMERS TRAINING CENTRE, Govt of Punjab — Amritsar 143001: Khalsa College; Offr Incharge: Balwant Singh Gill, Dist Trg Offr; Offers 20 short-term specialized institutional courses in basic skills to farmers and farm women and five short-term specialized institutional courses to convenors of Charcha Mandals to obtain agricultural inputs from various departments; No fee; Free boarding; Gurdaspur 143521: Offers five 2-month poultry training courses organized at Poultry Farm, Gurdaspur. Two courses of 2-week duration are also conducted in each service centre.

PUNJAB AGRICULTURAL UNIVERSITY, Ludhiana 141004; Ph: 22960, Gram: Agrivarsity; Estd: 1962. Vice-Chancellor: Dr Sukhdev Singh; Faculty of Agri, Dean: Dr D S Dev. Education: Dept of Anim Sc, Head: Dr L S Hundal; Prof of Nutrition: Dr J S Ichhponani; Assoc Prof (Poul Sc): Dr B K Shingari, Ph: 22960/307; Poul science offered as part of animal science at MSc and PhD levels. Extension: Offr Incharge: Dr Dalbir Singh Dev, Prof of Anim Sc (Extn); Asst Extn Specialist (Poul): Dr M L Kansal, Ph: 22969/307; Services: Technical guidance on various aspects of poultry including vaccination, debeaking, management, poultry processing, feed analysis, supply of chicks; Farm visits undertaken. Training: Dept of Extn Education, Offr Incharge: Dr A N Shukla, Ph: 22960/321; Offers 4-12 courses of 10-day duration in basic skills, management and nutrition; No fee.

College of Veterinary Science, Ludhiana 141004; Dean: Dr Balwant Singh. Education: Dept of Vet Pathology, Head: Dr Balwant Singh; Assoc Prof: Dr G S Grewal, Ph: 22960 ext 324. Extension: Disease diagnosis, consultancy to farmers and participation in training programmes; No fee.

PUNJAB POULTRY CHICK SEXING TRAINING CENTRE, c/o Kalra Modern Poultry Farm, Maksudan, G T Rd, Jalandhar 144004; Ph: 2742; Principal: H S Bedi; Offers 30-day course in chick sexing.

PUNJAB POULTRY TRAINING CENTRE, Govt of Punjab Poultry Project, c/o Central Poultry Breeding Farm, GOI, Industrial Area, Phase I, Chandigarh 160002; Ph: 24461; Offr Incharge: Dr P P Singh, Asst Dir. Training: Offers training in management, basic skills, nutrition, etc. Duration: Short-term: 15 days and Long-term: 12 and 24 weeks.

Rajasthan

GOVERNMENT POULTRY FARMS, Govt of Rajasthan. Training -- Ajmer: Lohagal Rd, -305001; Ph: 20648; Offr Incharge: Dr V K Mishra; Alwar: Near Phool Bag, -301001; Ph: 3446; Dr C L Sharma; Jaipur: Khatipura,-302001; Ph: 76929; Dr Y P Singh; Jodhpur: Ratanada, -342001; Ph: 21241; Dr Mohd Iqbal; Kota: Mokhapara, -324001; Ph: 4965; Dr L Mathur; Tonk: Dhanna Talai, -304001; Dr D Prasad. Impart one month training to big farmers and one week training to small farmers.

KRISHI VIGYAN KENDRA, Sukhadia University, Fatehpur-Sekhawati 332301, Sikar Dist; Offr Incharge: Dr B L Pureet.

LIVESTOCK FIELD INVESTIGATION STATION, Govt of Rajasthan, Bassi 303301, Jaipur Dist; Offr Incharge: Dr A K Purohit.

SUKHADIA UNIVERSITY, Udaipur 313001; Ph: 23597, Gram: University; Estd: 1962; Offg Vice-Chancellor: Dr K N Nag; Dir of Extn Education: Dr S L Mathur; Dir of Research: Dr H G Singh; Addl Dir of Research: Dr A L Choudhary.

College of Veterinary & Animal Sciences, Bikaner; Ph: 178, Gram: Rajvetcol; Estd: 1954; Dean, Postgraduate Studies: Dr C S Mathur; Dean: Dr P N Malhotra. Education:

Dept of Anim Production; Offers full-fledged MVSc degree course in poultry science. Extension: Poultry Farm; Services: Vaccination, disease diagnosis, post-mortem, culling, debeaking, management, feed analysis, supply of chicks, etc. Training: Poultry Farm; Offers two short-term (90 days) courses in basic skills, management, nutrition, chick sexing, commencing in January and July every year; Qualifications: BVSc & AH and In-service candidates of Dept of AH, Vet Asst Surgeons and AHEOs; No fees.

College of Technology & Agricultural Engineering, Udaipur; Estd: 1964; Ph: 23837; Principal: Y V Huprikar. Education: Paper on poultry as part of BE (Agri).

Rajasthan College of Agriculture, Udaipur 313001; Ph: 24335, Gram: Rajcol-agri; Estd: 1954; Dean: Dr M S Manohar. Education: Dept of Anim Husbandry, Prof & Head: Dr V V Sharma; Poultry production and management as part of animal science course at graduate and post-graduate levels.

SKN College of Agriculture, Jobner 303329; Ph: 22, Gram: Agricol; Estd: 1947; Dean: Dr R C Mehta. Education: Dept of Anim Production, Head: Dr R K Bhargava; Incharge of Poul Sc: Dr S N Rajpurohit; Poultry production and management course offered at under-graduate level. Extension: Dept of Anim Production; Incharge: Dr R K Bhargava; Services: Disease diagnosis, post-mortem, culling, debeaking, supply of medicines, feed, equipment, loans.

Tamil Nadu

ANNAMALAI UNIVERSITY, Faculty of Agriculture, Annamalainagar 608002; Ph: 2451; Dean: Prof A R Lakshmanan; Lecturers: Dr V Chockalingam & Dr M R Vairavan.

FARMERS TRAINING CENTRE, Govt of Tamil Nadu, Tindivanam 604001, S Arcot Dist; Offr Incharge: G Ramanathan, Dep Dir of Agri; Offers courses mainly in agriculture, but poultry-keeping is also included; No fee; Allowance of Rs 5 per day.

KRISHI VIGYAN KENDRA, Tamil Nadu Agril Univ, Navalur Kuttapattu, Tiruchirapalli 620009.

MADRAS CHRISTIAN COLLEGE, Tambaram East, Madras 600059; Ph: 487290; Dir (Farm Projects): Dr I D Mantramurti.

TAMIL NADU AGRICULTURAL UNIVERSITY, Coimbatore 641003; Ph: 35461, Gram: Farmvar; Estd: 1971. Vice-Chancellor: Dr V Rajagopalan; Dir of Ext: Dr A John Knight.

Agriculture College & Research Institute, Coimbatore 641003; Ph: 35461, Gram: Farmvar; Estd: 1971. Education: Dept of Anim Husbandry, Prof & Head: Dr T Sivaraman; Poultry Production offered as part of BSc (Agri) and MSc (Agri Ext); Duration: Two trimesters and one trimester respectively; Also correspondence course and periodic radio broadcasts in modern poultry farming. Training: Dept of AH; Assoc Prof Incharge: Dr R Subramanian, Dr L Damodharan, Dr Krishnamurthy, Dr Khadhar Khan.

Institute of Animal Nutrition, Kuttupatham 603203, Tamil Nadu.

Livestock Research & Development Centre, 17 Samiappa St, Thirunagar Colony, Erode 638003; Assoc Prof & Head: Dr S Nagarajan.

Madras Veterinary College, Vepery, Madras 600007; Ph: 31506, Gram: Vetdean; Estd: 1903. Dean: Dr P Kothandaraman. Education: Dept of Poul Sc, Prof & Head: Dr I Alfred Jaya Prasad; Assoc Profs: Dr K Vedhanayagam & Dr R Kumararaj. Poultry science offered as a full-fledged course in BVSc, MVSc and PhD degree courses. Extension: Dept of Extn, Prof & Head: Dr C A Gopalakrishnan; Assoc Prof: Dr K M Selvaraj; Services: Vaccination, disease diagnosis, culling, debeaking, management, marketing, etc. Training: Dept of Poul Sc; 4-week training course for employed persons and 6-week course for unemployed persons in poultry science for those residing in and around Madras city.

Poultry Research Station, Nandanam, Madras 600035; Ph: 450913; Prof & Head: Dr V Sundararasu; Sr Scientists: Dr J Ramkrishna, Dr V Venkataramanunjam, Dr K Abdul Mujeer, Dr N Ramamurthy, Dr A Thangavel; Assoc Prof (Duck Breeding Scheme): Dr D Narahari.

Uttar Pradesh

ALLAHABAD AGRICULTURAL INSTITUTE, PO Agricultural Institute, Allahabad 211007; Ph: 7266, Gram: Agrinst; Estd: 1910; Offg Principal: Dr A C Broadway. Education: Dept of Anim Husbandry, Head:Prof O P Agarwala. Poultry science offered as part of BSc (Agri) & MSc (Anim Sc). Extension: Dept of Anim Husbandry; Services: Vaccination, disease diagnosis, post-mortem, debeaking, management, poultry processing, feed analysis, etc. Training: Dept of Anim Husbandry; Offers one short-term (7-10 days) training course in basic skills, management, nutrition; Qualifications: High School.

BANARAS HINDU UNIVERSITY, Institute of Agricultural Sciences, Varanasi 221005; Ph: 54291 ext 488/489. Education: Dept of Anim Sc, Head: Prof N N Pandita. Poultry Sc offered as part of Agri Sc at graduate and postgraduate levels. Extension: Services: Feed analysis, management, disease diagnosis.

CENTRAL AVIAN RESEARCH INSTITUTE (CARI), Izatnagar 243122; Ph: 74332, 74230, 74095 (Bareilly), Gram: Poultry Vetex, Tlx: 0577-206 CARI IN; Estd: 1979. Dir: Dr B Panda, Ph: 76420; Proj Coordinator (PB) & Head, Plg, Monitoring & Coordination: Dr S C Mohapatra, Ph: 74230; Head, Genetics & Breeding: Dr D C Johari; Head, Nutrition & Feed Technology: Dr V R Sadagopan; Head, Avian Genetics Resources: Dr P K Pani; Head, Post Harvest Technology: Dr S S Verma; Head, Technology Transfer: Dr D Chaudhuri; Head, Housing & Mgmt: Dr S D Ahuja. Centre of Advanced Studies (CAS), Dir: Dr B Panda. Education: The Centre for Advanced Studies established with the help of UNDP in collaboration with ICAR, conducts short-term courses for teachers, research workers and extension workers engaged in poultry production activities. Offers NDPH (National Diploma in Poultry Husbandry) course of 9 months duration for Poultry Extension Officers of State Governments. Course commences in July every year. Also offers Master and Doctorate Degree in Poultry Science (Affiliation with Deemed University IVRI, Izatnagar). Extension: Dept of Technology Transfer; Offers Farmer's Training, consultancy and advisory services to farmers and livestock owners; supply of commercial chicks and parent stock to various agencies.

CENTRAL POULTRY FARM, Chak Ganjaria, PO Bakkas (Sultanpur Rd), Lucknow 226007; Ph: 32643; Offr Incharge: Dr Shivajit Singh. Training: Offers 4 long-term courses of 3 months duration each commencing from Apr, July, Oct & Jan in poultry management and nutrition; Qualifications: High School (SC); No fee.

CHANDRA SHEKHAR AZAD UNIVERSITY OF AGRICULTURE & TECHNOLOGY, Kanpur 208002; Ph: 44466; Vice-Chancellor: Dr M B L Bhardwaj, Ph: 42089. Dept of AH & Dairying, Prof & Head: Dr N S Kushwaha; Assoc Prof: Dr H B Dwivedi. Education: Poultry production and management offered as part of BSc (Agri) and AH & MSc (Agri) AH and Dairying. Extension: Services: Vaccination, disease diagnosis, supply of chicks, debeaking, culling, feed analysis, management practices, training to small poultry breeders and farmers. Training: Short-term training in animal production.

College of Veterinary Science & Animal Husbandry, Mathura Campus, Mathura 281002; Ph: 148 & 113, Gram: Vetcol; Estd: 1947. Dean: Dr B P Singh. Education: Poul Sc Unit: Sr Scientist Incharge: Dr N S Tomar; Reader: Dr O N Seth; Dept of Pathology, Prof & Head: Dr J N Dwivedi; Dept of Bacteriology, Prof & Head: Dr R C Pathak; Dept of Nutrition, Prof & Head: Dr C S Barsual; Lecturer: Dr I A Siddiqui; Dept of Genetics, Prof & Head: Dr B P Singh; Res Offr (AI): Dr N S Tomer; Dept of Ext Poul Sc. Offered as fullfledged course in MVSc; also post-graduate studies in poultry science major and minor. Extension: Poul Sc Unit: Services: Supply of eggs and adult birds. Training: Poul Sc Unit; Offers short-term training courses and 6-week training course for mini poultry. Research: Regional Livestock Research Sub-Station; Central Poultry Farm, Govt of UP, Chak Ganjaria, PO Bakkas, Lucknow 226007; Ph: 32643; Res Offr (Poul Breeding): Dr S S H Husaini.

EXTENSION TRAINING CENTRE, Govt of UP, Civil Lines, Rae Bareli 229001. Training: Offers 20 short-term (5 days) courses in farm management, improved farming techniques, nutrition; No fee; Boarding charges: Rs 5 per day.

Extension: Offr Incharge: B Prasad. Services: Disease diagnosis, technical know-how; Farm visits undertaken; Mobile van service available. No fee.

E PANT UNIVERSITY OF AGRICULTURE & TECHNOLOGY, Pantnagar 263145, Nainital Dist; Ph: 2, Gram: Pantvarsity; Estd: 1960; Vice-Chancellor: Kripa Narain, IAS; Dir of Ext: Dr S S Singh; Assoc Dir: Dr S T Krishna. Education: Dept of Anim Scs, Head: Dr R P Chaudhary; Breeders: Dr S P S Tomar, Dr A K Banerjee, Dr O P Sharma, Dr S K Verma, Dr Rajvir Singh, Dr Vikram Singh; Nutritionists: Dr M G Jackson, Dr M L Verma, Dr D G Naik, Dr K S Singh, Dr A D Tiwari, Dr Mahendra Singh, Dr S S Chauhan, C M Prasad. Master's degree in poultry husbandry, animal breeding, animal nutrition offered; PhD degree in animal breeding and animal nutrition. Research: Livestock Research Centre, PO Nagla, Nainital Dist; Ph: ext 371; Asst Dir (Poul): Dr S K Verma.

College of Veterinary Sciences, Pantnagar 263145; Gram: Pantvarsity; Estd: 1960; Dean: Dr I P Singh. Education: Dept of Vet Med, Head: Dr H C Joshi, Ph: 622; Dept of Pathology, Prof & Head: Dr N P Singh; Dept of Physiology, Assoc Prof & Head: Dr M Mohsin; Offers under graduate, postgraduate & doctoral courses in poultry science. Extension: In-charge: Dr H C Joshi; Asst Prof: V D P Rao; Vet Offrs: Dr S K Shukla, Dr D C Chaturvedi; Services: vaccination, disease diagnosis; Farm visits twice a month for registered farmers. Short-term courses on poultry keeping are also offered.

INDIAN VETERINARY RESEARCH INSTITUTE (IVRI), Izatnagar 243122; Gram: Vetex; Estd: 1889; Dir: Dr P N Bhat, Ph: 74069, 74113 (resi). Div of Avian Diseases, Head: Dr G C Mohanty, Ph: 75510; Poul Scientists: Dr K C Verma, Dr R L Sah, Dr S C Arya, Dr H K Pradhan, Dr A S Panisup, Dr S D Singh & Dr J M Katariya; Div of Vet Public Health, Head: Dr N P Bhalla, Ph: 72965; Div of Biological Products, Head: Dr Roshan Lal, Ph: 74008; Div of Extn, Head: Dr O N Kunzru, Ph: 74391; Poul Specialist: Dr K C Tripathi. Education: IVRI (Deemed Univ): PhD (3-4 years), MVSc (2 years) & National diploma in poul husbandry (9 months).

KRISHI VIGYAN KENDRA, Kamla Nehru Inst of Sc & Tech, Sultanpur 228001; In-charge: M B Singh; Trg Organiser: S P Gupta.

LITERACY HOUSE, PO.Alambagh, Lucknow 226005; Ph: 50467, 52517, Gram: Literacy; Dir: G S Chaudhri.

NABARD BANKERS INSTITUTE FOR RURAL DEVELOPMENT, 34/5 Park Rd, Lucknow 226001; Ph: 35801, 43620, 33456, 34503; Principal: S S Bhatnagar.

NARENDRA DEV UNIVERSITY OF AGRICULTURE & TECHNOLOGY, PO Kumarganj 224229, Narendra Nagar, Dist Faizabad; Ph: 850,Gram: Agriversity; Vice-Chancellor & Dean: Dr Kirti Singh. Education: Dept of Anim Sc, Prof & Head: Dr K G Husain; Assoc Prof (Poul Nutrition): Dr D N Verma. Poultry science offered as part of animal science at postgraduate level. Extension: Directorate of Ext, Dir: Dr R P Singh. Training: Offer 15-day training to poultry farmers; No fee.

R B S COLLEGE, Bichuri, Agra; Ph: 75244, Gram: College; Principal: Dr Roshan Singh; Dept of AH & Dairying, Head: Dr O P Sengar. Education: Graduate & postgraduate courses up to PhD.

U P COLLEGE, Varanasi. Dept of AH & Dairying, Head: Dr G S Singh. Education: Graduate and postgraduate courses.

West Bengal

BIDHAN CHANDRA KRISHI VISWA VIDYALAYA, Haringhatta, PO Mohanpur 741246, Nadia Dist; Ph: 352 (Kalyani), Gram: Krishi Bidhan; Vice-Chancellor: Prof B N Chatterjee.

Faculty of Agriculture: Animal Breeding; Dr R Sinha; Animal Nutrition: Dr G C Banerjee; Animal Production & Management: Dr D N Maitra. Education: Poultry science offered as part of undergraduate and postgraduate courses; PhD in poultry science. Extension: Offers advisory and consultancy services to farmers.

Bengal Veterinary College, Mohanpur, Dist Nadia.

Faculty of Veterinary & Animal Sciences: Dean: Dr R K Kuila; Departments: Anim Breeding, Head: Dr Rahul Sinha; Anim Production & Mgmt, Head: Dr S C Majumdar; Anim Nutrition, Head: Dr S Biswas.

INDIAN INSTITUTE OF TECHNOLOGY, Kharagpur 721302; Ph: 35, Gram: Kharagpur technology; Dir: Prof Shankar Lal; Agri Engg Dept, Head: Dr R K Datta.

(Continued on Page 177)

Special Poultry Breeding Research Projects

NATIONAL POULTRY BREEDING PROJECTS

SCIENTIFIC POULTRY BREEDING PROGRAMME, Govt of India -- Central Poultry Breeding Farms: Hessarghatta (Bangalore), Bhubaneswar, Bombay and Chandigarh (See Breeding Farms under Section IV).

INDIAN COUNCIL OF AGRICULTURAL RESEARCH SPONSORED PROJECTS

ALL INDIA COORDINATED RESEARCH PROJECT (AICRP) on Poultry Breeding (Poultry for Eggs & Poultry for Meat).

COORDINATED CENTRE: CENTRAL AVIAN RESEARCH INSTITUTE, Izatnagar 243122, Bareilly Dist; Proj Coordinator (Poul Breeding): Dr S C Mohapatra, Ph off & resi: 74230.

MAIN CENTRES: POULTRY FOR EGGS

HYDERABAD: AICRP ON POULTRY BREEDING, Andhra Pradesh Agril Univ, Rajendranagar, Hyderabad 500030; Ph: 48316; Sr Scientist: Dr P L N Sarma; Jr Poul Geneticists: Dr K Chaitanyam & Dr A Rajasekhara Reddy; Jr Poul Nutritionist: Dr S Qudratulla; Jr Poul Pathologist: Dr S Rafeeq Ahmed; Farm Mgr: Dr P Mahipal Reddy; Vet Offr: Dr Y Kandlikar; Statistician: G Munuswamy Naidu; Asst Res Offr: Dr R M Vivek; Res Assts: Dr P Ananda Reddy & Dr V Ravindra Reddy.

IZATNAGAR: AVIAN PRODUCTION RESEARCH (POUL), Central Avian Res Inst, Izatnagar 243122, Bareilly Dist, UP; Ph: 74332, 74230, 76095; Sr Scientist & Offr Incharge: Dr D C Johri; Jr Poul Geneticists: Dr V Ayyagiri, Dr Thiyagasundaram; Avian Med: Dr B K Panda.

JABALPUR: AICRP ON POULTRY BREEDING, Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur 482004; Ph: 23771/41, Gram: Vetcol; Sr Scientist: Dr A G Khan; Jr Poul Geneticist: Dr P N Srivastava; Farm Mgr: M V Poulose; Jr Poul Nutritionist: Dr S K Singh; Jr Poul Pathologist: Dr R L Chakraborti; Statistician: Dr H S Sharma; Lecturers: Dr J K Bhardwaj, Dr R P Nema & Dr K K S Baghel; Res Assoc: A K Verma.

MANNUTHY: AICRP ON POULTRY BREEDING, Kerala Agril Univ, Mannuthy 680651, Kerala; Ph: 25237; Sr Scientist: Dr A K K Unni; Poul Nutritionist: Dr T Viswanathan; Farm Mgr: Dr P A Peethambaran; Jr Poul Geneticist: Dr M R Rajan; Sr Res Assts: Dr A Viswanath, Dr V K Elizabeth & Dr Leo Joseph.

MATHURA: AICRP ON POULTRY BREEDING, Mathura Vet Coll, Mathura 281001, UP; Ph: 4540, Gram: Vetcol; Sr Scientist: Dr R P Singh; Jr Poul Geneticists: Dr H N Singh, Dr Basant Singh; Jr Poul Pathologist: Dr K C Saraswat; Jr Poul Nutritionist: Dr R C Saraswat; Farm Mgr: Dr B S Saxena; Statistician: M R Singh; Sr Res Assts: Dr M D Sharma, Dr (Km) Basanti.

MAIN CENTRES: POULTRY FOR MEAT

AKOLA: AICRP ON POULTRY BREEDING, Punjabrao Krishi Vidyapeeth, Akola 444104, Maharashtra; Poul Geneticist & Offr Incharge: Dr D N Dharmadhikari; Jr Geneticist: Dr M D Kothekar; Farm Mgr: Dr B R Kolte; Asst Prof (Medicine): Dr N P Dakhinkar; Poul Pathologist: Dr (Mrs) Kirty Sirothia; Jr Statistician: R K Kolhe; Poul Nutritionist: Dr D H Rekhate.

BANGALORE: AICRP ON POULTRY BREEDING, Univ of Agril Scs, Hebbal, Bangalore 560024; Ph: 365383 Ext 11; Poul Geneticist: Dr B S Ramappa; Farm Mgr: Dr C V Gowdh; Jr Poul Nutritionist: Vacant; Statistician: S Ramachandra; Res Assts: N V Rajarathnam & H S Satyanarayana.
Control Population Unit (Meat), Univ of Agril Scs, Hebbal, Bangalore 560024; Ph: 365383 Ext 11; Poul Geneticist: Dr K S Pratapkumar; Farm Mgr: Dr B S Vankatarami Reddy.

BHUBANESWAR: AICRP ON POULTRY BREEDING, Orissa Vet Coll, Orissa Univ of Agri & Tech, Bhubaneswar 751003; Ph: 52669 Ext 62; Poul Geneticist: Dr S C Mishra; Statistician: M K Bala; Jr Poul Pathologist: Dr A G Rao; Jr Poul Geneticist: Dr G M Panda; Vet Offr: Dr B C Dash; Farm Mgr: Dr H K Kanungo; Jr Poul Nutri-

tionist: Dr P K Dehury; Jr Poul Technologist: Dr S K Chanda.

IZATNAGAR: AICRP ON POULTRY BREEDING, Central Avian Res Inst, Izatnagar 243122, Bareilly Dist, UP; Ph:74322, 74230;Poul Geneticist: Dr S P Sinha; Jr Poul Geneticists: Dr A K Dev Roy, Dr B P Singh, Dr R P Sharma & Dr G Shyamsunder; Poul Pathologist: Dr A P Pande; Statistician: S P Khare.

MADRAS: AICRP ON POULTRY BREEDING, Tamil Nadu Agril Univ, Poul Res Station, Nandanam, Madras 600035; Poul Geneticist: Dr A Sundararasu; Assoc Prof (Poul Genetics): Dr V Sethumadhavan; Asst Prof (Poul Meat Technology): Dr V Venkatramanujam; Asst Prof (Poul Med): Dr J Ramkrishna; Asst Profs (Poul Nutrition): Dr A V Parivallal, Dr K Venugopal, Dr K Abdul Mujeer & Dr A Thangaval.

SUB-CENTRES

ANAND: AICRP ON POULTRY BREEDING, Gujarat Coll of Vet Sc & AH, Anand 388001; Offr Incharge & Head, Dept of Anim Genetics & Breeding: Dr R K Shukla.

LUDHIANA: AICRP ON POULTRY BREEDING, Dept of Anim Sc, PAU, Ludhiana 141004; Offr Incharge: Dr D S Dev; Poul Geneticist: Dr Bhupinder Singh.

EDUCATION, EXTENSION & RESEARCH INSTITUTIONS

(Continued from page 175)

KRISHI VIGYAN KENDRA, Seva Bharati, PO Kapgari 721505, Dist Midnapore; Estd: 1976; President: Prof P K Sen. Training Assoc (Anim Sc): Dr P K Senapati.

NABARD REGIONAL TRAINING CENTRE, Bolpur Lodge, Bolpur 731204; Principal: N S Karekar.

POULTRY EXTENSION CENTRE, Govt of West Bengal, Kurseong 734203; Asst Poul Dev Offr: Dr B Pal.

STATE POULTRY FARMS, Govt of West Bengal, 42 Graham Rd, Tollygunge, Calcutta 700040; Ph: 465314; Asst Poul Dev Offr (Trg): D R Mukherjee.

VETERINARY TRAINING INSTITUTE FOR VFAs, Directorate of Vet Services, PO Midnapore 721101; Ph: 726; Principal: Dr S K Chakraborty. Inservice training for one year for the vet field assistants.

POULTRY ADVISER

97, St. John's Church Road
Bangalore 560005

English Monthly

First and only poultry journal published from South India, circulating the whole country and abroad uninterruptedly since 1968.

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Annual Subscription Foreign: $30 or £16

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(Continued on page 181)

Standards on Poultry

Indian Standards on poultry feed, ingredients, housing, equipment, livestock, poultry and its products, and transport are listed below. The Standards have been formulated by specially constituted sub-committees of the Agricultural and Food Products Division Council of Indian Standards Institution, having representatives of manufacturers, consumers, government agencies, research scientists and technologists.

FEEDS

Blood meal (IS: 7060-1973)
Bone meal — (IS: 1942-1968,first revision); calcined (IS: 7061-1973)
Broiler feeds (IS: 4018-1967)
Coconut oilcake — Expeller-pressed (IS: 2154-1972); solvent-extracted (IS:3591-1968, first revision)
Cottonseed oilcake — Expeller-pressed (IS: 1712-1970, first revision); solvent-extracted (IS: 3592-1968, first revision)
Dicalcium phosphate (IS: 5470-1969)
Feeds and feedingstuffs, methods of tests for (IS: 7874-1975); General methods (IS: 7874 (Part I) - 1975); Minerals and trace elements (IS: 7874 (Part II) - 1975); Microbiological methods (IS: 7874 (Part III) - 1975)
Fish meal (IS: 4307-1973, first revision)
Fodder yeast (IS: 3198-1965)
Gram—chuni (IS: 3161-1965); husk (IS:3162-1965)
Groundnut oilcake as livestock feed ingredient — Expeller-pressed (IS: 1713-1970, first revision); solvent-extracted (IS: 3441-1982, first revision)
Guar meal (IS: 4193-1967)
Linseed oilcake as livestock feed ingredient — Expeller-pressed (IS:1935-1982, first revision); solvent extracted (IS: 3440-1966)
Maize — bran (IS: 2153-1962); germ oilcake (IS: 2151-1962); gluten feed (IS: 2152-1972, first revision)
Meat meal and meat-cum-bone meal (IS: 5065-1969)
Mineral mixture (IS: 5672-1970)
Mustard and rape oilcake (IS: 1932-1972, first revision)
Nigerseed oilcake, solvent-extracted (IS: 5862-1970)
Poultry, Nutrients requirement for, (IS: 9863-1980)
Poultry feeds (IS: 1374-1977, third revision)
Protein in foods & feeds, Methods for determination of (IS: 7219-1973)
Rice — bran (IS: 3648-1975, first revision); solvent-extracted (IS:3593-1968, first revision)
Rice polish (IS: 3163-1965)
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Wheat bran (IS: 2239-1971, first revision)
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Debeaker (IS: 5804-1970)
Egg fertility tester (IS: 6228-1971)
Egg washing machine (IS: 6696-1972)
Feeder, portable (IS: 5255-1969)
Hatching box, Pedigree (IS: 7517-1974)
Housing, Code of practice for (IS: 2732-1972, first revision)

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Leg band (IS: 6545-1972)
Trap nest (IS: 7516-1974)
Waterer, portable, (IS: 5283-1969)
Wing band (IS: 6544-1972)

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Chicken essence (IS: 5558-1970)
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TRANSPORT OF POULTRY

Poultry, Code for transport of: Transport of Poultry—day-old chicks and turkey pullets (IS: 5238 (Part I)- 1982, first revision)
Transport of poultry other than day-old chicks and turkey pullets (IS: 5238 (Part II)- 1982, first revision)

UNDER PREPARATION

EQUIPMENT

Egg grader
Egg setter
Egg weighing scale
Feather plucker
Vaccinator

PRODUCTS

Chicken, tandoori, canned
Chicken curry
— sausages
— soup
Egg pulp, frozen
Malt sprouts
Mango seed kernel

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TABLE EGGS GRADING AND MARKING RULES, 1968

1. Short title, application and commencement:
   i) These rules may be called the Table Eggs Grading and Marking Rules, 1968; ii) They shall apply to table eggs produced in India; and, iii) They shall come into force on the date of their publication in the Official Gazette.

2. Definitions: In these rules
   a) "Agricultural Marketing Adviser" means the Agricultural Marketing Adviser to the Government of India and includes any officer subordinate to him to whom the power under these rules may be delegated by the Agricultural Marketing Adviser;
   b) "Schedule" means a schedule appended to these rules;
   c) "table eggs" means edible eggs derived as a product of poultry husbandry.

3. Grade designation:
   The grade designation to indicate the quality of table eggs shall be as set out in Column 1 of Schedule II.

4. Definition of quality:
   The quality of table eggs indicated by the respective grade designations shall be as set out against each grade designation in columns 2 to 8 of Schedule II (See next page).

5. Grade designation marks:
   1) The grade designation mark in the case of each table egg shall consist of a design incorporating the word 'Agmark' and the grade of the egg as approved by the Agricultural Marketing Adviser placed centrally in a circle of not less than 13 mm in diameter.
   2) The grade designation mark in the case of containers in which graded table eggs are packed shall consist of a label in the colour as set out in table below, specifying the grade designation and bearing the design of an outline map of India with the word 'Agmark' and the figure of the rising sun, with the words "Produce of India" and भारतीय उत्पादन.
   The grade designation mark to be attached to each container of table eggs shall consis of a label specifying the grade designation and shall be in the following colour, namely:
   Extra large — White; Large — Red; Medium — Blue; and, Small — Yellow.

6. Method of Marking:
   1) The grade designation mark shall be marked legibly on each table egg in indelible ink on the shell by means of a rubber stamp and in a manner approved by the Agricultural Marketing Adviser.
   2) The grade designation mark label shall be attached by means of a lead seal bearing the word AGMARK to each container of table eggs and shall clearly show the following particulars: a) Grade designation of the table eggs; b) number of table eggs; c) net weight of table eggs; d) name of grading station; and, e) date of despatch.

7. Method of Packing:
   1) Only sound, clean and dry containers which are suitable for the purpose and are free from any undesirable smell and from any insect infestation or fungus contamination shall be used for packing; 2) The containers shall be securely closed and sealed in a manner approved by the Agricultural Marketing Adviser; 3) Packing material, if used, shall be clean, dry, sweet smelling and free from any taint liable to impart any objectionable flavour to the table eggs; and, 4) Table eggs of different grades shall be packed separately, as far as possible, and, if table eggs of more grades than one are packed in one container, a layer of clean paper or clean straw shall be placed between the different grades and separate label of appropriate colour shall be attached to the container giving the particulars in respect of the table eggs of each grade packed in the container.

SCHEDULE II

TABLE 58. Grade designations and definition of quality of table eggs produced in India (See Rules 3 & 4).

Grade	Weight per egg in gms	Weight (per doz) in gms	Weight (per unit of ten) in gms	Shell	Air Cell	White	Yolk
A Extra large	60 and above	715 and above	596 and above	Clean, unbroken and sound; shape normal	Up to 4 mm in depth; practically regular or better	Clear, reasonably firm	Fairly well centred, practically free from defects, outline indistinct
A Large	53-59	631-714	526-595				
A Medium	45-52	535-630	446-525				
A Small	38-44	456-534	380-445				
B Extra large	60 and above	715 and above	596 and above	Clean to moderately stained and sound; shape slightly abnormal	8 mm in depth; may be free and slightly bubbly	Clear, may be slightly week	May be slightly off-centred, outline slightly visible
B Large	53-59	631-714	526-595				
B Medium	45-52	535-630	446-525				
B Small	38-44	456-534	380-445				

TABLE 59. ISI grading characteristics for dressed chicken.

Grade 1	Grade 2
1. Conformation:	1. Conformation:
Free of deformities that detract from its appearance or that affect the normal distribution of flesh. Slight deformities, such as slightly curved or dented breastbones and slightly curved back may be present.	Slight abnormalities, such as dented, curved or crooked breastbone, crooked back, or misshapen legs or wings which do not materially affect the distribution of flesh or the appearance of the carcass or part.
2. Fleshing:	2. Fleshing:
The breast is moderately long and deep and has sufficient flesh to give it a rounded appearance with the flesh carrying well up to the crest of the breastbone along its entire length.	The breast has a substantial covering of flesh with the flesh carrying up to the crest of the breastbone sufficiently to prevent a thin appearance.
3. Fat covering:	3. Fat covering:
The fat is well-distributed so that there is a noticeable amount of fat in the skin in the areas between the heavy feather tracts.	The fat under the skin is sufficient to prevent a distinct appearance of the flesh through the skin, specially on the breast and legs.
4. Defeathering:	4. Defeathering:
Free of pin feathers, diminutive feathers, and hair which are visible to the inspector or grader.	Not more than an occasional protruding pinfeather or diminutive feather shall be in evidence under a careful examination.
5. Cuts and tears:	5. Cuts and tears:
Free of cuts and tears on the breast and legs.	The carcass may have very few cuts and tears.
6. Discolouration:	6. Discolouration:
Discolouration due to bruising shall be free of clots. Flesh bruises and discolourations of the skin such as "blue back", are not permitted on the breast or legs of the carcass or on these individual parts and only lightly shaded discolourations permitted elsewhere.	Discolouration due to bruising shall be free of clots. Moderate areas of discolouration due to bruises in the skin or flesh and moderately shaded discolouration of the skin, such as "blue back", are permitted.
7. Freezer burn:	7. Freezer burn:
May have an occasional pockmark due to drying of the inner layer of skin (derma), provided that none exceeds the area of a circle 0.5cm in diameter.	May have a few pockmarks due to drying of the inner layer of skin (derma), provided that no single area exceeds that of a circle 1.5 cms in diameter.



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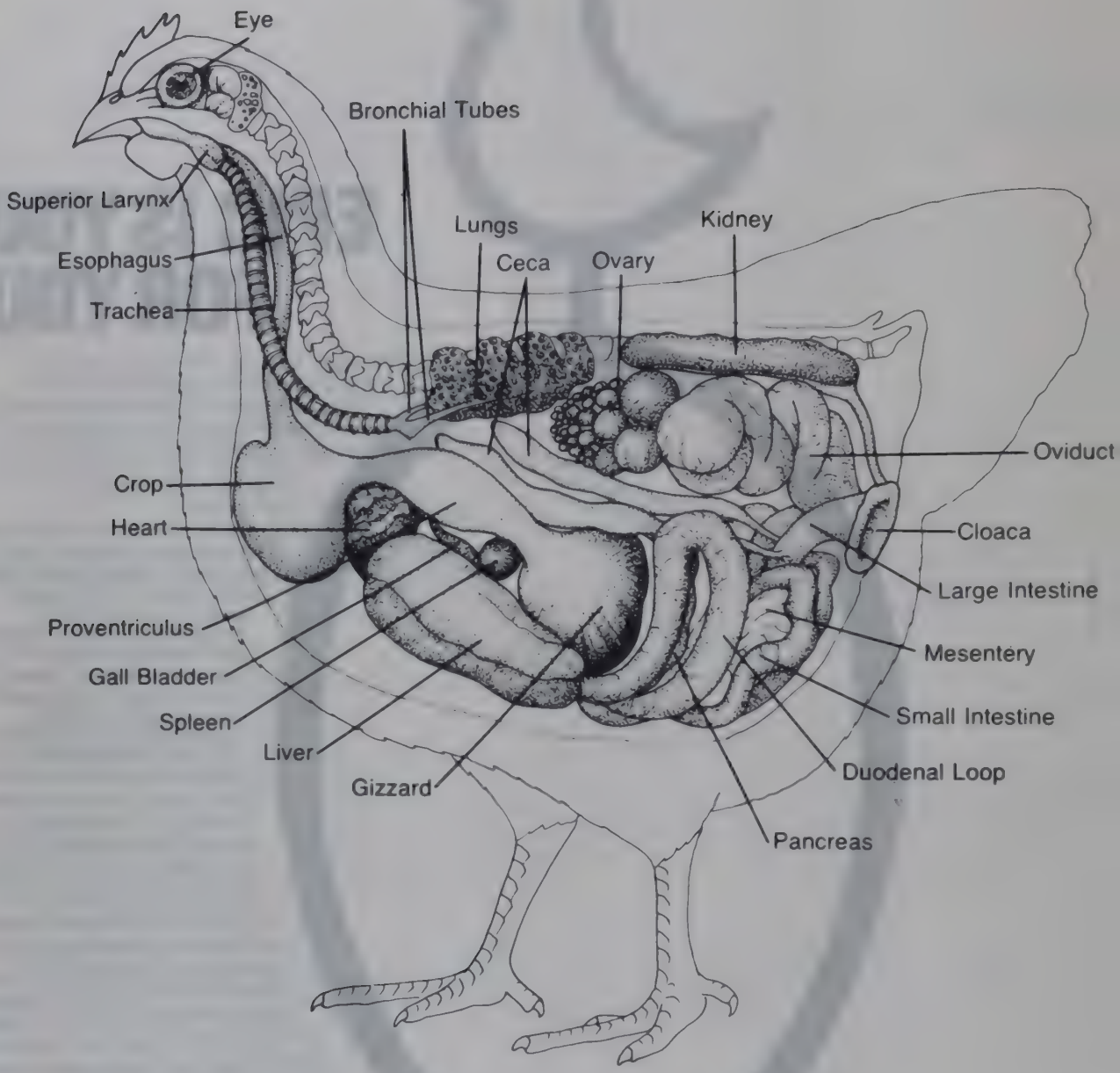
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Schematic of Chicken

Adapted from material provided by Salsbury Laboratory, Charles City, Iowa.

Glossary

Listed below is a glossary of common and scientific terms used in all aspects of managing poultry. It covers some guidelines to basic good husbandry and latest techniques to raise productivity. It includes terms compiled by John Farrant and published in World Poultry, May 1984. It excludes poultry diseases which are covered in Section II.

A

abdominal capacity: Determined by measuring the distance between (1) ends of the pelvic bones and (2) ends of pelvic bones and the end of the breast bone. Indicates the laying stage of bird.

abdominal cavity: Interior of the rear part of the body which is where excess fat tends to be deposited. This should be avoided with laying stock as it impairs feed efficiency. Critical times to check that excess fat is not deposited here are at 18 weeks and during induced moulting. In broilers, reduction of abdominal fat can be achieved by selection, nutrition and management. It is the subject of current research.

additives: Substances added to a compound or a protein concentrate in the course of manufacture for some specific purpose other than as a direct source of nutrient. Usually used in micro quantities and require careful handling and mixing. These substances include coccidiostats and anti-blackhead drugs for mass prophylaxis or treatment, antibiotics for growth promotion, prophylaxis or treatment, antioxidants, colouring agents, flavourings, etc.

addled: Egg containing early dead embryo.

aflatoxins: The aflatoxins are a group of toxin metabolites produced by the fungi Aspergillus flavus and A. parasiticus. These toxins are sometimes produced when the relevant Aspergillus fungus grows on feed or food. The aflatoxins will not always be produced; the extent of their production will depend upon: (a) the strain of the fungus; (b) the nature of the substrate; and (c) the temperature and humidity of the environment immediately surrounding the area of mould growth. Previous mould growth and insect damage can sufficiently modify the nature of the environment in the affected areas to promote the production of the aflatoxins. A toxin-producing strain of Aspergillus will produce one or more of the aflatoxins if the moisture content of a suitable substrate is in equilibrium with a relative humidity of greater than 85 per cent and if the temperature is between 12° and 42°C. The optimum temperature for the production of the aflatoxins is around 27°C.

Agmark: Short form for "Agricultural Marketing": national insignia for quality and purity and applied to agriculture and animal husbandry products, under the Agricultural Produce (Grading and Marking) Act, 1937. Lables bearing the mark given to products which conform to certain grade, specifications and standards laid down.

air sacs: Expandable membranes communicating with the lungs and the hollow bones. Help in respiration of bird, also gives buoyancy and lightness to birds.

air space: In eggs, is critical for the hatching chick and as a measure of its quality. It is at the broad end of the egg, between shell membranes and provides the chick with air prior to chipping of the shell. It is used to indicate age and quality of an egg for consumption.

albumen: The chief protein constituent of plant and animal tissues. The white of an egg, which is secreted around the york in the oviduct, is almost pure albumen. When an egg is broken out it can

be seen as two layers -- inner and outer albumen — which are an important measure of quality. They should be free from inclusions. In fresh eggs from healthy stock they should 'stand up' well, only spreading out over a small area. 'Watery whites' are indicators of staleness and/or respiratory diseases. Represents about 60 per cent by weight of an egg.

alfalfa (lucerne) leaf meal: The dried ground product consisting chiefly of leaves of alfalfa plant. It shall be reasonably free from other crop plants and weeds and shall contain not less than 20 per cent crude protein and not more than 18 per cent of crude fibre.

amino-acids: The form in which proteins are absorbed into the blood stream. They are defined as essential and non-essential. It follows that the amino-acid content of proteins in poultry diets is more important than the actual level of protein. Requirements for the essential amino acids -- lysine, methionine and tryptophan — are critical in the analysis of raw materials and formulation of diets.

ammonia: Unpleasant gas (NH^3) given off by fermenting droppings. Since this pollutes the house atmosphere and represents loss of nitrogen it should be minimized. Keeping droppings dry, removing them frequently and increasing ventilation (short-term) are three ways of keeping ammonia levels low. Up to 15-20 parts per million in the atmosphere are acceptable to staff and stock. Higher levels can progressively impair bird performance, increase susceptibility to respiratory disease and eventually lead to ammonia blindness. The human nose is probably the best test of what is acceptable.

Ancona: A non-sitting Mediterranean light breed of fowl; native of the Italian town, Ancona.

anthelmintic: Also called vermifuge. A product which removes intestinal parasitic worms.

antibiotic: Substance produced by certain organisms which is antagonistic to other species, e.g. penicillin is produced by a fungus and prevents the growth of many types of bacteria. Some antibiotics can stimulate growth by their action on the intestinal flora.

antigen: Specific agent which can show the presence of specific disease antibodies.

Aseel: Indigenous breed of fowl.Good fighter. Several varieties of breed known.

Australorp: Breed of fowl developed in Australia from Black Orpington. Egg producer; dual purpose.

auto-sexing: Sex differentiation at day-old stage by some visual character, such as colour of down, early feathering etc.

avian: Of, relating to birds.

axial feathers: The short feathers in the middle of the wing, separating the primary from the secondary feathers.

B

Backcross: Mating of a progeny to one of its parents or parental types.

balanced: A term that may be applied to a diet, ration or feed having all known required nutrients in proper amount and proportion based upon recommendations of recognized authorities in the field of animal nutrition for a given set of physiological requirements of animals. The species for which it is intended and the functions such as maintenance and production (growth, foetus, fat, milk, eggs, wool feathers) or work shall be specified.

balancer: The term can be applied to both compounds and protein concentrates and is, therefore, too indeterminate and inexact to merit use as a definition. The balancing function is best retained to describe those compounds technically designed for feeding with farm roughages. Its use within the protein concentrate context should be discontinued and replaced by the use of the term "protein concentrate" qualified by the appropriate inclusion rate, e.g. 50 per cent.

bantam: Dwarf variety of domestic fowl.

barring: Light and dark stripes across the long axis of a feather. Used for auto-sexing.

battery: The original name for what has become the home for layers since this form of housing was introduced about 50 years ago. Few broilers, turkeys or breeding stock are kept in cages — the modern term — but most commercial layers are kept in this way. This transition has come about due to higher bird performance and lower labour costs compared with other systems. Different designs use steel and welded wire or timber and wire netting, in horizontal, stepped or vertical configurations with 1-8 tiers. Pressures to ban cages are

more likely to lead to design improvements than switching to an alternative system due to the strong economic and bird performance arguments in their favour. Minimum stocking densities operate in some countries, ranging up from 450 sq cm/bird.

beak trimming: Anti-vice measure.

blade: The hind part of a fowl's single comb.

blastoderm: The germ spot, or germinal disc, on the yolk of an egg, giving rise to the embryo.

blind check: Egg with a crack in the shell so small that it can be detected only by candling or tapping against another egg.

blood meal: Useful animal protein.

blood ring: Observed in some hatching eggs, when the embryo has died during first few days of incubation. Sometimes also caused due to Vitamin E deficiency.

blood spots: Inclusions in the egg white that normally represent up to one per cent of downgraded eggs. Their incidence has been reduced by genetic selection but other factors that have been implicated are alfalfa meal and nervous flocks. They can be detected by candling but with brown eggs and fresh eggs it is of doubtful value. Studies of blood spots have revealed that they are usually impossible to detect in eggs that are less than seven days old because free blood in the albumen takes that time to coagulate into a spot.

bloom: A layer of protective coating on the external surface of egg; also called cuticle.

bone meal, steamed: Product obtained from bones, dried and ground and sterilized by cooking undecomposed bones with steam under pressure.

breast: Front of a fowl's body from point of keel bone to base of the neck. In dead birds, flesh on the keel bone.

breed: A group of birds answering truly to the type, carriage and characteristics distinctive of the breed name they take. There may be varieties within a breed, distinguished by differences of colour and markings.

breed cross: Offspring of a mating between two different breeds.

breeding: The science and art of bringing improvement in animals through selection and proper mating system.

brewers' yeast, dried: Dried and non-fermentive, non-extracted yeast obtained as a by-product in the process of brewing beer. It shall contain not less than 40 per cent protein.

broiler: A broiler or fryer is a young chicken usually 6 to 9 weeks of age of either sex, that is tender meated with soft pliable, smooth textured skin and flexible breastbone cartilage suitable for either broiling or frying. Separate sex growing enables more precise weights to be achieved and allows more efficient use of feed. Deep litter is the most popular system and cages have yet to catch on due to high initial costs and carcass quality problems. The current world record for a commercial flock is an average weight of 2.9 kg at 56 days (8 weeks).

broiler mash: A complete mixed feed for broilers.

brood: 1. A group of chicks hatched out from the same batch of eggs. 2. To incubate eggs, or protecting the young from the weather; hen inclined to sit on eggs, as a broody hen.

brooder: Also called rearer, foster mother. Important equipment used in artificial rearing of chicks, from one day upto 6-8 weeks, for providing artificial warmth at controlled temperature and regular supply of fresh air, providing dryness and easy disinfection, protection against enemies; made in various designs depending upon source of heat supply and size, and the number of chicks to be reared.

brooder house: A house used for rearing chicks from day-old, with arrangement for artificial heating and light.

brooding: Relates to rearing of chicks after hatching till the age up to which warmth has to be provided; natural and artificial methods followed.

brooding coop: Coop or cage provided to hen and the chick to protect them from enemies and inclement weather, essential requirements of which being dryness, durability, darkness, roominess and safety.

brooding hen: A hen used for hatching eggs and rearing young chicks.

broody: Traditional brooding hens that will sit on eggs until they hatch are harder to find nowadays because the broodiness characteristic has been bred out of modern laying strains. Silkie hens are among the few reliable 'mothers' left. But broodiness is still a problem with turkey breeders and draughty broody coops are widely used to cure the miscreants. When a hen goes broody she will lose the feathers on her breast, collect eggs under her and protect them.

C

caeca: Pair of closed branches at the junction of the small and large intestines. Fermentation and digestion of fibre is their main function, the undigested part of which is evacuated every eight hours or so as soft creamy droppings. This part of the gut is attacked by Tenella species of Eimeria -- causing coccidiosis which is typified by the caeca becoming enlarged and showing lesions. Other species attack various parts of the intestine.

calcite: An acceptable source of calcium carbonate. It shall contain not less than 36 per cent of calcium.

candling: Visual examination to test eggs for freshness by holding them between the eye and a lighted candle or other source of light; characteristics associated with edible quality or hatchability, such as air-cell size, yolk shadow position, presence of blood or meat spots, and presence or lack of germ development.

cannibalism: Vice that may occur in chickens of all ages. Feather picking and toe picking are simpler forms of cannibalism which usually start under conditions of overcrowding at brooding. Cannibalism may develop into more serious forms of head, wing and vent picking. Overcrowding, overlighting, lack of excerise and an imprcper ration may be other causative factors. Even a low level of cannibalism reduces performance. Preventive measures are debeaking and dimmed lights.

capon: Castrated male chicken (usually under 8 months of age); grows for longer period than cockerel; good for table use, as flesh is of better flavour, softer, of finer texture.

carotene: The pigment present in carrots, maize and other green foods. Has relationship to Vitamin A.

cestode: Tapeworm.

chalaza (pl. chalazee): The spiral strings of dense albumen, opposite one another on yolk of an egg. Maintain the axis of orientation, when the egg is turned during early stages of incubation.

chick feathering: The first feathering to appear, replacing the day-old down.

chick sexing: See sexed chicks.

chicken: 1. The domestic fowl, gallus domesticus, family Phasianidae, the most widely distributed and commonly kept farm animal. 2. Birds including chicks, broilers, hens, pullets, cockerels and cocks. 3. A warm-blooded, feathered oviparous (egg-laying) vertebrate of the animal kingdom possessing a high metabolic rate with a normal breathing rate of 40 to 50 per minute as compared to 16 to 24 for man, a heartbeat rate of 300 a minute, as compared to 60 to 85 for man and a body temperature of 105° to 108°F compared to 98.6°F for man.

chilling: Freshly-hatched chick exposed to cold causes set back to its growth and egg-laying capability. Cold chicks do not eat, drink or grow. Crowd at the source of heat may cause trampling. On commercial farms, chicks are protected from chill by being reared under artificial brooder. Brooding temperature at the outset is 95°F or 35°C and reduced at the rate of about 5°F or 3°C weekly.

chuni-dal: Product consisting of fine broken pieces of the endosperm, including germ and a portion of husks, as obtained in the preparation of dal for human consumption.

cloaca: Combined intestinal and reproductive rear opening.

clutch: Term expressing the sequence of egg laying or number of eggs laid on consecutive days. See laying sequence.

cock: A cock is a mature male chicken with coarse skin, toughened and darkened meat and hardened breastbone tip.

cockerel: A male fowl less than one year ol

comb: Fleshy protuberance on top of a fowl' head, varying considerably in type and size.

compcund feeds: A number of different ingredients (including major minerals, trace elements, vitamins and other additives) mixed and blended in appropriate proportions to provide properly balanced diets for all types of stock at every stage of growth and development. In some cases, e.g. ruminants, compound feeds are technically designed, when fed without further mixing with cereals, to supplement natural foods (e.g. grass or roughages) available on the farm. In such cases the compound feed is frequently given a name defining its purpose, e.g. for balancing straw, grass, kale, silage, etc.

concentrates: High protein constituents of rations that provide a ready-made protein/mineral/vitamin balance for mixing with cereals. Their application is main

on-farm milling and mixing where they simplify the job and incorporate nutritional knowledge that is beyond the farmer. Normal inclusion rate is about 15 per cent and protein content ranges from 40-45 per cent depending on the class of stock.

coverts: Covering feathers on tail and wings.

cracks: Indicates cracked eggs and is the main cause of downgrading. Throughout lay the average percentage of second quality eggs is around 10 per cent of which the bulk are obvious cracks and hairline cracks which only show up on candling. Cage floor design and slope, calcium intake, age and breed of bird, packaging and handling, are all critical factors in determining the percentage of 'cracks'.

criss-cross breeding: Involves the use of males of different breeds alternately with the crossbred progeny from the previous mating.

crop: Pouchlike enlargement of the digestive system at the base of the neck. It serves as a receptacle for food.

crop bound: A condition in which the crop is impacted and distended with a mass of indigestible matter. See impacted crop, sour crop.

crossbreeding: The mating of pure-bred birds belonging to two different breeds. Often results in a high degree of heterosis or hybrid vigour, apparent in rapid growth and sometimes in increased egg production.

crosses: The progeny of two varieties or breeds are First Crosses. Mating of these to a third breed produces Second Crosses.

crude fibre: This is coarse woody cell walls of mature plants, as the cornstalk. Usually referred to as crude fibre, it is composed chiefly of insoluble carbohydrates such as cellulose and hemicellulose generally linked with lignin.

crude protein (CP): The sum total of protein in food and feeds, generally determined in terms of nitrogen.

— digestible (DCP): That part of the crude protein in feed which the animal can digest.

crumbles: Pellets reduced to a granular texture.

custom hatching: Incubating eggs for some charge. The chicks produced are returned to the owner of the eggs.

culling: The elimination of unproductive or otherwise undesirable birds which judged from their physical characteristics are found to lack the qualities for which they were reared, whether for egg or meat production; an important and continual operation for profitable poultry farming.

cuticle: See bloom.

D

dam family: Also known as full-sib. Individuals belong to the same dam (female parent).

day-old: Abbreviation to describe day-old chicks or poults and means what it says — they normally leave the hatchery on the day they are hatched. At the hatchery they are culled, sexed and vaccinated against Marek's disease, as appropriate. Main brooding requirements of all day olds are clean, draught-free quarters, temperature of 90-100°F (32-38°C) under the brooder and easy access to clean water and balanced feed in the form of crumbs. Chicks which are sent out unseparated by sex are termed 'as-hatched'.

dead-in-shell: Embryo that has died at any stage of incubation.

de-beaking: Is a rather less extreme measure than its name suggests. It is the trimming of the ends of the upper and lower or beaks by a red-hot blade which cuts and cauterizes in one movement. If it is done at 14 days of age it reduces stress for life, caused by feather-picking and cannibalism. The technique is mainly applied to layers but in the USA many broilers are de-beaked at day old.

debeaker: An equipment designed and constructed for debeaking poultry by means of an electrically heated steel blade which would cut and cauterize the beak at the same time, preventing haemorrhage.

deep litter: Also known as built-up litter. System of keeping poultry in a house, on the floor on which is placed litter composed of wood shavings, saw-dust, rice husk etc., about 6 inches depth; droppings not removed, although litter is stirred periodically and fresh material added. Litter replaced after a year. The litter disposed of makes a valuable fertilizer.

desi fowl: Fowl indigenous to India; not a pure breed. Exhibits great variation in size, shape, colour and conformation. Best mother and ideal sitter, good

forager, adaptable to village husbandry conditions.

de-wattling: Removal of the wattles.

deworming: Administering suitable drugs to birds to either kill or expel their intestinal parasites.

diallel crossing: Crossing all inbred lines in all possible combinations to determine the genotype (gene formula) of the unknown. Diallel tests are particularly useful for determining genotypes of the bird with respect to complex characters like egg production and viability.

digestible energy: The total energy of a food minus the energy of the faeces.

dipping: The brief immersion of animals or birds/eggs in an insecticidal liquid to rid them of insects, mites, ticks, bacteria, etc.

distended crop: Intestinal disorder.

distillers' grain, dried: The dried residue obtained in the manufacture of alcohol and distilled liquors from maize or rye or wheat.

distillers' grain with solubles, dried: The distillers' dried grains which contain the major portion of the condensed screened stillage dried therewith. Only alcohol is distilled off when the whole mass is fermented.

Dorking: English breed of fowl, dual purpose.

down: Initial hairy covering of baby chicks, ducklings, etc. Also the fluffy part of the feather below the web and small tufts sometimes seen as faults on toes and legs of clean legged breeds. See fluff.

drake: Male duck.

dressing: Preparing bird for table by removing the feathers and blood after killing.

dried poultry waste (DPW): A product composed of freshly collected faeces from commercial laying or broiler flocks not receiving medicants, and thermally dehydrated to a moisture content of not more than 15 per cent. May be used as an ingredient in poultry feed.

droppings: The faecal excretion of birds.

drum stick: The thigh (femur) of a table bird.

dry mash: A balanced mixture of ground cereal or cereal products with supplements which is fed to poultry in dry form without the addition of any liquid.

dry matter (DM): That part of the feed which is not water. It is sum of the crude protein, crude fibre, nitrogen-free extract and ash. All feed formulations are based on DM composition of feedstuff.

dual-purpose: All commercial hybrids are bred specifically for either meat or egg production and the nearest approach to a dual purpose breed is the heavier brown egg strains. In some developing countries the cockerels of such breeds are still in demand and the hens are as valuable as a point-of-lay pullet. For back garden poultry keepers there is some attraction too for this modern version of a dual purpose breed, weighing over 5 lb at maturity.

dubbing: The process of trimming or removing the comb and wattles of breeder males to improve their virility and vigour. Preferably done at day old age.

duodenum: U-shaped loop of the part of the gut which leads from the gizzard. It is attacked by the type of coccidiosis caused by Eimeria acervulina.

dust: A pesticide applied in dry state; application of such dust to fowls.

E

ectoparasites: Ticks and mites and other external parasites.

egg: The more or less oval reproductive body produced by females of birds, enclosed in a calcareous shell within which the young develops on fertilization. Contains the nutrients for developing embryo. The egg can also be produced without mating. See infertile egg.

egg bound: A physiological condition in pullets when first start laying, caused by attempted laying of large-sized egg before passage is sufficiently dilated to allow egress to it; characterized by the hen getting restless, visiting nest frequently, prolapse of oviduct, and finally death. Treatment: remove egg by exerting pressure with one hand on the bird's abdomen, forcing the egg through vent, and puncturing the egg when it appears.

Egg Feed Price Ratio (EFPR): The relationship between the price of eggs and the price of feed: key to farm economics. If the selling price of two eggs can buy one kg of feed, then the farmer is making profit. But if it takes three eggs to buy one kg of feed then he is at a break-even point. After that he loses money.

egg grader: A machine used for grading eggs

As ungraded eggs are carried along a moving belt, they pass over a weighing device which automatically sorts them into separate containers; and in some cases also over concentrated light for determining interior quality.

egg shell: The outer, thin, hard, rather brittle covering of the egg, consisting mainly of calcium carbonate. Protective to egg contents: hard and rigid, with thousands of minute tubular tunnels or pores. Consists of two layers: thin, dense and compact outer layer and the open and granular inner layer.

egg-type hen: Hen, which belongs to a breed that is able to produce a good number of large-sized eggs, such as Leghorn, Minorca, Ancona, Campine.

egg white: See albumen.

egg yolk: The central yellow portion of a hen's egg which contains the germ cell; a rich source of food material.

electrolytes: Charged solutions of minerals.

embryo: Development of the embryo in the egg starts at 80°F (27°C) for chicken and 70°F (21°C) for turkeys. Therefore hatching eggs should normally be kept cool prior to incubation. Development to hatching normally takes 21 days for chicken, 28 days — turkeys, 28-35 days — ducks, 30-35 days — geese, 18-21 days — bantams. See incubation.

endoparasites: Internal parasites such as worms and coccidia.

environment: Although poultry are adaptable to a wide range of temperature and humidity they perform best under constant, controlled environment conditions. Insulation, air inlets and outlets, fans, humidifiers, baffles, light dimmers, thermostats and brooders are all used to produce the best productive conditions for the age and class of stock. After the brooding period, objectives should be a temperature of about 20-25°C (68-77°F), relative humidity of 50-70 per cent, and an air exchange rate that removes waste gases fast enough to make the atmosphere comfortable to work in.

epizootic: Widely dispersed — rapidly spreading — diseases.

eversion: Cloaca partially expelled from body.

evisceration: Removal of the gut, heart, lungs and reproductive organs during the preparation of poultry for the oven. Weight loss from liveweight to oven-ready is normally 20-30 per cent. In modern processing plants the process is completed while the carcases are still warm and machines are taking over the task.

exotic: Refers to a species not native to the area in question; introduced; alien; non-endemic.

external parasites: These include mites, fleas and lice. Best way to control all of these is through cleaning of housing and equipment between batches. With short cycle stock it is usually unnecessary to use insecticides, which have more application for layers and breeders. Timber cages, perches and nests are the most common harbours for external parasites and these should be soaked with a persistent insecticide between batches. Aerosol sprays can be used when birds are in residence.

F

F_1 & F_2 generations: The progeny resulting from some specific mating become the first filial generation and are called F_1 generation. When birds of this first generation are mated among themselves, the offsprings are the second filial generation and are called F_2 generation.

FAPP: Filtered air positive pressure.

feathers: Good feather cover is an important contributor to feed conversion efficiency and ways to improve retention of feathers by layers are being studied. During plucking most feathers are removed wet and these can only be used for feathermeal which is used as a high protein (85 per cent) ingredient in compound feeds. Maximum inclusion level in rations for all types of stock is $2\frac{1}{2}$ per cent.

feather follicle: The depression on the skin from which the feather grows in birds.

feather meal: Product resulting from the treatment under pressure of clean, undecomposed feathers from slaughtered poultry, free of additives, and/or accelerators. Not less than 75 per cent of the crude protein content shall be digestible.

feather picking: See cannibalism.

feed, complete: A nutritionally adequate feed for animals by specific formula is compounded to be fed as the sole ration and is capable of maintaining life and/or promoting production without any additional substance being consumed except water.

feed conversion ratio: An index of efficiency expressed in terms of kilograms of feed consumed per dozen eggs laid or

per kilogram weight gain in meat type birds. This in effect is a measure of the productive efficiency of the flock- the output of eggs/meat in relation to the input of feed. An average of 2.5 kgs of feed per dozen eggs or 2.75 kgs of feed per kilogram of weight gain is considered ideal under Indian conditions. See Egg Feed Price Ratio.

feed hopper: Trough, pot or pan for keeping feed for poultry birds; generally protected by a reel or running wire crosswise to prevent birds from scratching out feed.

feed supplement: Feed or feed mixture comparatively richer in particular nutrients than the normal feed ingredients in the poultry ration.

feeding: The practical application of nutrition, i.e., consideration of economics, management, formulation, palatability, non-nutritive additives, etc.

filial generations: F_1 and F_2 generations.

filler flat: Tray, made of moulded paper, plastic or wood, for transporting eggs.

first cross: Progeny of mating two breeds.

fish meal: High protein and high cost feed ingredient. Protein content is 65-70 per cent and energy is also high at 11.5-13.7 Mega Joules/kg of metabolizable energy. Its value also depends partly on the high quality of the protein and unidentified growth factors. Maximum inclusion levels range from 7½-15 per cent in rations for all classes of stock.

fish solubles: Product obtained during the production of fish meal, by concentrating the 'stickwater' or clarified liquor, which consists of 95 per cent water and 5 per cent solids. The solid portion consists of dissolved, dispersed and finely suspended fish proteins, minerals, B complex vitamins, and unknown growth factors.

flight coverts: Small stiff feathers covering base of the primaries.

flights: Primary feathers of the wings used in flying, but tucked out of sight when the bird is at rest.

floor brooder: A metallic hover, circular, rectangular or hexagonal in shape; it is fitted with heating arrangements thermostatically mechanically controlled for providing uniform temperature in the area covered by it.

floor eggs: Eggs that are not laid in the nest boxes, even if these are provided.

floor space: The amount of space given to intensively kept stock is recommended in Welfare Codes. These standards vary with type of stock and accommodation, ranging from 4-10 lb/sq ft (19.5-48.8 kg/sq metre). Legislation is likely to set minimum densities in many countries due to pressure from welfarists.

fluff: Soft downy feathers around the thighs. See down.

follicle: 1. Very small sac-like structure such as the depression from which a hair or feather grows. 2. The fluid-filled cavity in which the egg develops in the ovary.

forced moult: Deliberate moulting of birds, by drastic changes in food and environment. Done after the first laying cycle is completed to help increase egg production in the second cycle.

formaldehyde: Fumigation agent -- gas.

formulation: The process of constructing a feeding formula (feed, diet or ration).

fowl: 1. Live poultry. 2. A mature chick. 3. Any large bird. See hen.

fowl breed: A sub-division of fowl type or fowl class; examples being Rhode Island Red and Leghorn.

franchise: An agreement between a breeding organization and a hatchery, whereby the latter hatches and distributes the branded stock of the parent company.

fryer: See broiler.

fumigation: Formaldehyde is the gas given off during fumigation of housing, equipment or eggs. It is active against a wide range of pathogens and is produced by heating paraformaldehyde crystals or adding formalin to potassium permanganate. The heating method with a specially designed electric pan is widely used as the final phase in house cleaning. An insecticide can also be included.

further processed: Poultry products that have been taken beyond the stage of cutting the carcase into portions. Adding flavours and stripping the meat are resulting in an ever increasing range and represents the main growth in poultry meat sales for advanced industries.

G

game birds: Birds such as partridges and pheasants, which are shot both for sport and for their edible qualities.

gasping: Respiratory distress.

genetics: The science of breeding that has done so much to make poultry the most efficient livestock for producing meat protein. Genetic progress depends on

selection and a high rate is possible since in a life span of 18 months 200-plus offspring can be produced. The term derives from genes — the units of inheritance carried on chromosomes in the body cells. Each one transmits a character from parent to progeny.

genetic engineering: Breeding on the basis of the birds chemical make-up.

genotype: Genetic make up of stock.

germinal disc: Spot of protoplasm on the surface of the yolk.

giblets: The edible viscera of the bird, comprising its gizzard, heart, liver and neck.

gizzard: Part of the digestive system of the fowl between the stomach (proventriculus) and the duodenum; important organ with muscular walls and a thick, horny lining helping in the grinding of feed. Traditionally this is helped by giving flint grit which is retained in the gizzard. But with crumbs, pellets and mashes the value of this practice is questionable and has largely been dropped. Grit can also damage mechanical feed distribution equipment.

graded eggs: Eggs which have been sorted out and labelled according to size and quality.

grading: The proper separation of produce into grades or kinds in conformity with certain accepted quality standards, such as size, shape, form, weight and other physical and chemical characteristics.

grit: Two types of grit are used — soluble and insoluble. The former is a source of calcium for bone and egg shell development and comes as oyster shell or limestone granules. These are rarely fed separately as most rations are complete (See Calcium). Flint or granite grit of varying sizes can be used for all stock, but its value is doubtful except where oyster shell is fed separately and then it may assist the release of available calcium.

growers: Pullets between six weeks and point of lay. Mash containing 15 per cent protein is normally fed and intake is controlled to achieve target weights. Cages are tending to replace deep litter and slats as housing systems. Most growers are reared away from adult stock to enable immunity to major diseases to be built up and they go to laying farms at 18 weeks.

growth promoter: Feed agent which enhances growth rate or feed conversion.

H

hackles: Narrow pointed feathers on the neck (neck hackles) and the lower part of the back (saddle hackles).

hair crack: Fine cracks in the egg shell that can only be seen with the help of a candling lamp when the eggs are fresh. As they get older they become more apparent.

hangers: Feathers hanging from the posterior part of a male fowl—the lesser sickles and tail coverts known as tail hangers, and the saddle hackle as saddle hangers.

hatch: To bring forth young from the egg by natural or artificial incubation.

hatchability: 1. Quality of a fertilized egg to produce normal embryonic development and normal emergence of the young, when incubated. 2. The percentage of fertile eggs that hatch. 3. The percentage of eggs that hatch from total eggs set.

hatcher: Second unit used in incubation, after the setter.

hatchery: Birthplace of chicks. Modern hatcheries are usually equipped with large setters and hatchers, for incubation and hatching, and standards of fittings and hygiene are on hospital lines. As well as sexing and boxing the saleable chicks, many hatcheries now vaccinate them against Marek's disease. Eggs for hatching should have been fertilized whereas for eating they are normally infertile.

hatchery-by-product (poultry): A mixture of egg shells, infertile and unhatched eggs, and culled chicks which have been cooked, dried and ground, with or without removal of part of the fat.

hatching egg: An egg of good form and quality produced by a breeding flock which can be used for producing chicks.

heavy breeds: Dual purpose or meat type breeds, such as Rhode Island Red, Plymouth Rock and New Hampshire, weighing 2.5 kgs or more at the age of sexual maturity in case of females and 3 kgs or more in case of cockerels.

hen: After 12 months of lay a pullet becomes a hen. This is the current definition for censuses and has superceded 'after the first moult', since the length of the first laying period varies widely.

hen-day production: This is arrived at by dividing total eggs laid in the season by the average number of birds in the house. Due allowance is made for mortality and culling. This figure is higher than the hen-housed average.

hen housed average: This is the figure derived from the total number of eggs laid by a flock divided by the number of birds in the flock at onset of lay. Since it takes into account both rate of lay and mortality it is an extremely good indicator (90 per cent accurate) of relative profitability. Well managed flocks should exceed 250 eggs per hen housed. The world record for a flock of over 1,000 brown eggers is 313.

heterosis: Also known as hybrid vigour. A phenomenon used to describe superiority in performance of a cross compared with non-inbred stock from which the parents of the cross were derived. The genetic basis of this phenomenon is not properly understood and is described as one of the great enigmas in the field of genetics.

hind toe: The fourth or back tow of a fowl.

hock: Joint of the thigh with the shank, sometimes called the knee or the elbow.

home mixed: Rations prepared on farm rather than bought in as compounds.

hominy feed: Mixture of the maize bran, germ and starchy part of maize as produced in the manufacture of pearl hominy, grit or table meal.

housing: While small houses and runs are fine for small flocks, large numbers of birds have to be kept intensively to be economic unless earning a special premium (See Environment). Within these houses most types of stock are kept on deep litter, but there is a trend for more breeding flocks, broilers and growing pullets to follow layers into cages.

hover: Apparatus used for keeping chicks warm; See brooder.

hybrid: The product of two or more pure lines which tends to exhibit hybrid vigour — is superior to either of its parents. But the effect of crossing pure lines is variable and breeders experiment with many different crosses to find the best combination. Most commercial stock are hybrids, which have made a rapid takeover in the past 30 years.

hybrid vigour: See heterosis.

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immune suppression: Suppression of antibody production.

impacted crop: Consumption by birds of a large amount of lawn clippings of dried grass or other fibrous materials frequently results in an impaction of the crop, due to the inability of muscular action of the crop to force the food through the opening and into the proventriculus. In some cases part of the material may get as far as the gizzard and result in impaction of the gizzard, thus plugging the digestive system resulting in the accumulation of food and liquid in the crop. See also crop bound, sour crop.

improved chicken: Term generally applied to exotic and comparatively modern breeds of chicken such as White Leghorn, Rhode Island Red and Australorp, imported into India, where they are bred and acclimatized to local conditions. Several breeds reared for ornamental and commercial purposes.

inbred line: A bird resulting from four or more generations of inbreeding.

inbreeding: Also called line-breeding. The breeding together of closely related birds for successive generations to improve or eliminate certain characteristics.

incinerator: Equipment used for burning dead birds; regarded as the most satisfactory form of hygienic flesh disposal; if properly done, there is no odour, disease, rodent, fly or water pollution problem.

incross: See hybrids.

incross breeding: Crossing highly inbred lines of different breeds. Offspring of such a mating known as incrossbred.

incrossing: Crossing highly inbred strains of the same breed. Offspring of such a mating known as incross.

incubate: To keep eggs, under conditions suitable for hatching or development.

incubation: The hatching of eggs by means of heat -- natural or artificial. Artificial incubation has taken over from the broody hen. 99.5°F (37°C) is the norm for chicken eggs operated in cabinet incubators. In these, eggs are trayed, broad end up and turned automatically to 45 degrees each side of the vertical. Setter and hatcher are usually separate and air flow is controlled.

incubation period: The period between the setting and hatching out of eggs, being 21 days in chicken; ducks 28 days, geese 30 to 34 days, turkey 28 days, guinea fowl 26 to 28 days.

incubator: A closed chamber designed and constructed for hatching eggs, and incorporating built-in means of heating and humidifying the air and of fresh air supply to the chamber.

Indian red jungle fowl: Gallus gallus murgi; wild jungle fowl found in northern and north-eastern parts of India.

infertile egg: Egg laid by the hen without fertilization from cock; incapable of embryonic development. Retains egg quality for long.

insemination: Artificial insemination (AI) is the collection of seminal fluid from the male bird and introduction by pipette into the oviduct of the female. It is essential for broad breasted turkeys and better fertility can also be attained with other types of stock. Fewer males are needed, therefore selection pressure can be increased, but this has to be weighed against higher labour costs. Females are fertilised every 7-10 days.

intensive housing: A confined system of poultry farming for rearing chicks in large numbers; two methods: floor rearing on deep litter and in cages.

internal parasites: Pests which live within the body.

K

keel: The sternum or breastbone. In laying stock they are still fairly 'sharp' but finished meat poultry is so well fleshed that the keel is obscured by breastmeat on either side.

key feather: The short feather separating secondaries from primaries; also termed the "index" or "axial" feather.

killing: Neck dislocation or stunning followed by bleeding.

L

lay: To deposit an egg or eggs produced within the female reproductive system.

layers: Adult commercial chickens which produce most of the eggs for consumption. Most are hybrids and these are bred to lay white, brown or tinted eggs. They perform best in laying cages and their average production improves every year through genetic selection and better management techniques. (See hen housed average.)

layer house: A house for laying chickens.

laying ability: The ability of a particular hen to produce eggs. Commonly measured by eggs produced in a given time; largely determined by age of sexual maturity, intensity and persistency of production, absence of broodiness and pauses.

laying batteries: Battery cages housing laying hens, with wire floor sloping forward to roll out eggs out of reach of hen; cages contiguous, in single deck or in tiers, save space.

laying mash: The feed, conducive to egg production, given to laying birds.

laying mortality: Percentage of birds that die after they are 150 days old.

laying nest: A special type of nest provided to laying birds. Commonly a box of 35 x 35 cms with 38 cms head space with the front open in case of individual nest. Larger in case of colony nest.

laying sequence: Also called clutch, cycle. The laying of eggs by poultry birds on consecutive days; length determines its productivity. See clutch.

leg: The shank or scaly part.

leg band: Band of metal with a code for identifying individual birds in breeding programmes, laying tests, etc.

light breeds: Egg laying type breeds, such as White Leghorn and Black Minorcas weighing about 1.8 kgs at the age of sexual maturity in case of female and about 2.25 kgs in case of cockerels.

lighting: Light patterns and intensity are critical tools of management. For laying stock the most profitable programme is likely to be 23 hours from day old to two weeks, 8 hours from 2-18 weeks and then weekly increases to a maximum of 12-16 hours. Most broilers are kept on 24 hours dim light but an on/off system of intermittent lighting of 1L:3D or 2L:2D appears to have advantages. Day-length is also used to stimulate turkey breeding stock, being raised from 6 to 14 hours at about 29 weeks. Dim lights are usually used in rearing except for young chicks or poults which should have bright lights for the first few days. Intensity in laying or breeding houses should be bright enough to read a news-

paper. Fluorescent lamps or tubes have gained popularity due to low electricity usage and development of dimmers. Intermittent patterns being tried for layers are 8L/10D/2L/4D and 3L/3D repeating.

limestone, ground: An acceptable source of calcium carbonate. It shall contain not less than 36 per cent calcium.

limestone grit: Small pieces of limestone given to fowls as a part of their diet, to help the gizzard grind food materials that pass through it.

line breeding: Means the restriction of selection and mating to a single line of descent; narrowing the pedigree to a few and closely related lines of descent.

litter: Shavings are the preferred material — (See deep litter).

liveability: Capacity of birds to survive under intensive system of poultry farming.

M

maize: The backbone of the diets that started the broiler industry. It has the highest energy of all cereals at 14.17 Mega Joules/kg, but protein is only nine per cent. Maximum inclusion in diets is 50 per cent but much lower levels are used in broiler finisher diets, when white flesh is desired, due to the Xanthophyll content. This cereal is also a good source of linoleic acid which promotes egg size.

management: The human factor within a production process which delimits production process, accumulates information on their solution, analyses information, reaches decisions, acts on them, and bears responsibilities for action. See poultry management.

mandible (sing. mandibulum): The upper or lower part of bird's beak.

manure: Fresh droppings contain about 75 per cent moisture, 1.5-1.7 nitrogen, 1.2-1.4 phosphorus, 0.5-0.7 potash. Odour is minimized by keeping it as dry as possible. Natural drying down to 50 per cent moisture halves the weight to be removed and doubles the value.

mash: Dry mash as a complete ration is generally used for all types of stock except for fattening meat birds and during the first few days when crumbs encourage chicks to eat more.

mash concentrate: A poultry mash containing proteins, vitamins and minerals to be supplemented by the farmer with the locally available grain and bran.

mass selection: A term often used for individual selection, specially when the selected individuals are put together en masse for mating.

maturity: In breeding stock sexual maturity is at 20-30 weeks when they are capable of producing fertile eggs. For commercial layers it is more relevant to body size which should stop increasing at about 40 weeks, some 20 weeks after onset of lay.

meat-cum-bone meal: Dry rendered product from mammal tissues, exclusive of hair, hoof, horn, hide trimmings, manure and stomach contents, except in such amounts as may occur unavoidably in good factory practice. It shall contain phosphorus not less than 4.5 per cent. It shall not contain more than 14 per cent pepsin indigestible residues. The crude protein shall be not less than 40 per cent. It shall not contain added blood meal.

meat meal: Animal protein feed ingredient — 70 per cent protein.

metabolizable energy (ME): The total amount of available energy in complete feeds and individual feed ingredients. Formerly measured in Cals/lb but now indicated in Mega Joules/kg since metrication of feeding stuffs. (See calories.)

Minorca: Mediterranean breed of fowl; large bird. Layer of big-sized white eggs. Once popular egg layer in India. Two colours, the blacks and the whites, the former common. Does well on free range; good forager and small eater. Young cockerels suitable for table when about 3 months old.

mixtures: A general term applied to any two or more materials mixed together, whether they are further processed or not. It will be seen that compounds, protein concentrates and supplements would invariably be mixtures. The term, however, is too indeterminate and inexact to merit use as a definition.

morbidity: Sick rate.

mortality: Death rate.

mottled yolk: Egg in which the yolk has a peculiar mottled appearance like that of small blisters or has patches of different material in it. Egg defect. Usually occurs in hot weather.

mould: A term used to refer to any fungus which normally forms visible mycelial growth.

mouldy egg: Egg in which mould has grown inside and outside shell; more likely when egg is cracked.

moult: To cast or shed periodically feathers; the process of shedding occurs naturally once a year in chickens, but fright, with adding of feed and water, can cause a partial/full moult, putting birds out of production for about 2-4 weeks.

moulting: Under natural conditions chicken go through a moult in their second autumn, but year-round production on controlled daylength brings only partial moulting during the second half of the normal 12-14 month laying cycle. Complete moulting is more often induced and is achieved by reducing daylength and feed for two weeks or so and cutting off water during the first 24 hours. This policy reduces working capital required and is more profitable than annual replacement when pullet prices are high, cull hen prices are low and the heavier egg weight grades achieve a higher return per kilogram. For best results moulting should be done after about 40 weeks lay.

mycotoxin: "Myco" means mould and "toxin" means poison. Therefore "mycotoxin" means mould poison. Mycotoxin can be produced by a number of common moulds under certain growth conditions.

N

nematode: Round worm.

nest box: Box provided to fowls for laying eggs, in or outside pen; made of wooden or packing case or empty kerosene tin.

nests: All types of adult female stock need nests except when they are kept in cages. Individual nests are preferred to the communal type and are usually adequate in the ratio of one for five hens. Materials to make the nests attractive and to minimise shell damage are the same as for deep litter. Where rollaway nests are used, nesting material should be used at first to encourage the birds to lay in the nests. Floor laying is also discouraged by ensuring that the nests are dark and easily accessible.

New Hampshire: A general purpose breed of fowl from America, developed from Rhode Island Red stock. Very hardy; good producer of large, light, brown-shelled eggs. Plumage surface colour chestnut red. Otherwise similar to Rhode Island Red. Less rectangular than Rhode Island Red. Comb single.

nutrition: The act or process of nourishing or being nourished. It is the sum of processes by which an organism absorbs and utilises food substances, e.g., digestion, absorption, assimilation, nutrient interrelationships, etc.

O

offal: Literally means waste and usually means the part of the gut not sold as giblets (liver, heart, gizzard) plus the head and feet. This is cooked to produce poultry protein meal which is a valuable feed ingredient containing 22 per cent oil, 62 protein and has an ME 15.65 Mega Joules/kg. Up to five per cent is the level included in rations.

oil gland: The uropygial gland situated at the base of the tail. Used during preening, when the bird spreads the oil over its feathers with its beak.

Orpington: Breed of general purpose chickens of English class. Good table bird; egg-laying strains also developed. Buff, Black, White and Blue. Buff variety used for developing the popular breed, Australorp.

outbreeding: Unrelated matings.

outcrossing: Mating of an inbred or linebred strain with unrelated male or female of some breed from new source, as fresh outside blood.

oviduct: Long convoluted tube through which the ovum is moved and in which the albumen, shell membranes and shell are formed; consists of five distinct parts i.e. infundibulum, magnum, isthmus, uterus and vagina.

oviposition: Laying of the eggs.

ovulation: Escape of the ovum from the ovarian follicle.

oyster shell, flour: An acceptable source of calcium carbonate. It shall contain not less than 36 per cent calcium.

oyster shell grit: An acceptable source of calcium carbonate, it is used in poultry feed primarily as a means to permit a better grinding action in the gizzard. It is used because of its hardness and insolubility. Hard grit is really the teeth of poultry and is essential for suitable poultry feeding. It also serves as a material for scouring the lining of the gizzard and keeping the folds and convolutions clean.

P

panting: Effort to reduce body temperature when air rises above 90°F (32°C) except during the first few weeks of life. Initially it can reduce shell thickness and if severe and prolonged can lead to death. To reduce effective temperature -- ventilation, insulation and water sprays can all be used to good effect.

pathogen: Organism capable of producing infection.

pedigree: Details of a bird's ancestry or breeding.

pellets: Feed for fast growing meat producing stock is pelletized to encourage them to eat more and digestibility is also improved. When fed to laying stock pellets tend to lead to boredom and over consumption.

pen: An enclosed area in which birds are confined.

perch: Also called roost. Poles of wood, sufficiently long, 5 cms square, round at the top and flat at bottom; fixed horizontally in poultry houses for birds to perch on; helps keep bird's feed and plumage clean. Perch poles should be spaced 30 to 35 cms apart. Recommended perch space per bird 20-25 cms.

persistency: The ability to lay for over a year at a high rate, which at today's costs is generally over 60 per cent. Combined with a high peak it determines hen housed average. Can be improved by selection, correct feeding, good hygiene standards, lighting programmes and keeping houses at 20-25°C (68-77°F).

phase feeding: A feeding programme where the nutritional balance is altered to meet variable requirements due to temperature, production rate and/or rate of gain and age.

phenotype: Visible appearance, as opposed to genetic make up.

pick: To pluck feathers from a fowl.

pinfeather: A feather not fully developed especially one just emerging through the skin.

pip: An incubated egg is said to have pipped or chipped when the beak of the chick first pierces the shell.

plucking: Most carcases are wet-plucked by machine, prior to which they are dipped in hot or cold water, depending on the type of defeathering equipment. If sold before evisceration they are termed fresh-plucked or New York dressed. Wax may be used as a dip for waterfowl before plucking to get a better finish. (See dry plucking).

Plymouth Rock: A popular breed of fowls of American class; one of the most popular breeds in USA; good size, excellent flesh and egg-laying capacity. Popular varieties: Barred and White.

point of lay: Time at which pullets start laying, usually 18-22 weeks. Loosely defined but applicable to when combs are developed, birds begin to 'talk' and first eggs from a flock are found.

poult: A young turkey before its sex is distinguished; sometimes applied to the young of other fowls.

poultry: Domesticated species of birds reared for eggs, meat or feathers; include chickens, ducks, geese, turkey, guinea fowls, etc.

poultry band: A strip of metal, usually aluminium, marked with numbers, etc. attached to the leg or wing of a bird for identification.

poultry husbandry: The science and art of production and distribution of poultry and poultry products, including breeding, incubation, brooding, rearing, housing, feeding, marketing and poultry farm management.

poultry management: The science and art of organization and operation of farms so as to obtain the maximum amount of continuous net income. Considers the effectiveness of different sizes of operating units and of combinations of productive resources, enterprises and practices for operating units.

poultry manure, meal: Dehydrated, sterilized and ground poultry manure, free of other foreign materials. It shall contain not less than 4 per cent nutrients as additives.

poultry netting: Wire netting with hexagonal meshes of 1¼, 2, 2½ cms size used for construction of poultry houses, etc.

PPLO: Avian pleuro-pneumonia-like organism (Mycoplasma gallinarum) is the cause of chronic respiratory disease. The pleuro-pneumonia group of organisms are extremely small, varying widely in form, which have a particular affinity for the membranes of the respiratory tract, frequently giving rise to chronic irritations.

ppm: Parts per million.

premix: A uniform mixture of one or more nutrients and additives diluent and/or

carrier. Premixes are used to facilitate uniform dispersion of the nutrients and additives in a large mix.

primaries: See flights.

primary coverts: See flight coverts.

productive energy: The portion of net energy available to the birds from the feed for furnishing heat to the bird's body, or energy for life processes, or for work.

progeny testing: Testing performances of male and female offspring, in order to determine prepotency of their parents. Method of estimating the breeding value of sire or dam by means of performance given by progeny.

prolapse: Protrusion of the oviduct through the vent. Pushing it back, cleanly and carefully is rarely successful. Normally best to cull the bird before it dies. Preventive measures are to avoid birds coming into lay too soon, de-beaking and avoiding bright sunlight shining into laying quarters.

protein: An organic compound whose molecular structure consists of an arrangement of units known as amino-acids. Depending on the type of stock, the requirement is for rations containing 15-32 per cent. The make-up of the protein is critical (see amino-acids) and with layer and breeding stock the correct daily intake of protein should be ensured by matching percentage protein to daily feed consumption.

protein concentrates: Products specifically designed for further mixing, before feeding, at an inclusion rate of 5 per cent or more, with planned proportions of cereals and other feedingstuffs either on the farm or by a feedstuff compounder. Since the aim is that the final diet mixed in this way should be balanced for a particular feeding purpose, protein concentrates contain blended protein rich ingredients such as fish meal, meat meal, soya, etc. fortified with such essential nutrients as the major and trace minerals, vitamins, etc. Where the rate at which protein concentrates are designed to be used in the mix is high, e.g. 50 per cent, they will contain some cereals or cereal by-products. Such products have been described from time to time as "balancers", but this is an inexact description. Some protein concentrates are specifically designed so that after further mixing with the appropriate quantities of cereals the resultant product is then suitable for balancing farm roughages. See balancers and compound feeds.

pullet: Female chicken from day old to up to 12 months of lay when it becomes a hen. After sexing at day old, breeding pullets are normally grown separately to the cocks from 8-22 weeks and most commercial layer pullets are reared on specialist farms before being moved to laying quarters at 18 weeks.

pure line: A strain, the individual members of which are genetically pure as a result of continued in-breeding or self-fertilization as the same type as itself.

R

random sample tests: An independent guide to the performance of stocks. Groups of different breeds are tested under identical conditions. Initially a small sample (say 250) is taken from many thousands of chicks hatched on the same day. With layers, the different stocks may be reared together and then they are randomised at point of lay with groups of the stock placed in different parts of the laying house to even out any variations due to environment.

ration: The amount of the total feed which is provided to one animal over a 24-hour period.

rattling: Throat disease symptom.

rearer: A brooder of large dimensions without lamps or any other source of heat for rearing chicks after brooding, sometimes known as cold brooder.

rearing coop: Coop with wire-mesh bottom for chicks to grow up to 8 to 10 weeks of age. Here, they have no chance of coming in contact with droppings.

reciprocal recurrent selection: A selection procedure in breeding where pure bred individuals within two segregating populations are selected on the basis of their cross progeny performance.

replacement stock: Young birds used for replacing the older ones.

restricted feeding: Reduction of the ad lib intake by breeding stock and commercial laying stock to avoid over-fatness and improve productive efficiency. In practice, daily allocation is controlled to provide the nutrients necessary for the desired rate of growth or production. This is difficult to achieve with layers in cages and they will rarely over-eat if house temperature is right. The term 'controlled feeding' is more often used

nowadays and it is probably only justified for broiler breeding stock for most of their life and for commercial pullets from 6-15 weeks of age.

Rhode Island Red: Breed of fowls of American class; best all-round bird; hardiest, good meat-producer, also excellent layer, producing large brown-shelled eggs. Common variety: Single comb. Bred largely for egg production with consideration to meat quality. Rich red plumage, yellow skin, yellow shanks tinged with reddish horn.

roaster: A young chicken (usually 3 to 5 months of age), of either sex, that is, tender-meated with soft, pliable, smooth-textured skin and breastbone cartilage that may be somewhat less flexible than that of a broiler or fryer.

roost: 1. See perch. 2. A perching or resting place for fowls, especially hen-house or a part of it.

rooster: See cock.

roosting space: Space necessary for each roosting bird, usually 20-25 cms on the roost, depending upon the size of the bird.

roughage: A coarse feedingstuff generally high in fibre but low in its percentage of digestible matter as contrasted with that of concentrates. Hay, fodder, straw and silage are common roughages.

S

saddle: The posterior part of the back, reaching to the tail of the male, and corresponding to the cushion in a female.

scratch feed: The grain part of the ration for poultry, given in hoppers or on ground.

scalder: A thermostatically controlled machine containing hot water; slaughtered birds are dipped for 1½ minutes in hot water at 58°C for loosening feathers from feather follicle in case of broilers and 60°C for 1-2 minutes for culled birds.

secondaries: The quill feathers of the wings which are visible when the wings are closed.

secondary sexual characters: Differences between male and female birds such as comb, size, plumage colour and shape, voice and behaviour.

semi-intensive: Housing under part range part covered conditions.

serrations: "Saw tooth" sections of a single comb.

setter: Initial accommodation for incubating eggs.

sexed chicks: Chicks separated according to sex at hatching, making it possible to purchase either pullets or cockerels. Sexing done by everting the cloaca of the chick by a slight pressure and distinguishing the parts thus exposed. Feather sexing by looking closely at the wing feathers and distinguishing between fast and slow type of feathering, now becoming popular in commercial strains of chicks. Colour pattern also used in the case of chicks of certain coloured breeds. Chick sexing machines are also used to distinguish sexes.

sexing: Males and females can be sexed at day-old by vent sexing, feather development or down colour. The first can be applied to all day olds, slow/fast feathering is a sex linked characteristic bred into some broiler stocks and most brown eggers have sex-linked feather colour. An increasing number of meat birds are reared sex separate to improve feed efficiency and control over final weights.

sex-linkage: Cross-over inheritance -- sire characteristics to pullet progeny and dams to cockerel progeny.

sex-linked cross: See sex-linkage.

shank: See leg.

shell egg: An entire egg with shell intact, as against egg with broken shell.

shoulder: The upper part of the wing nearest the neck feather.

sickles: The long curved feathers of a male's tail, usually applied to the top pair only (the others often called the "lesser" sickles), but sometimes used for the tail coverts .

single comb: A comb which, when viewed from the front, is narrow, and having spikes in line behind each other. It consists of a blade surmounted by spikes, the lower (solid) portion being the blade, and the spaces between the spikes and serrations. It differs in size, shape and number of serrations by breeds.

sire family: Also known as half-sib family. Individuals belong to the same sire (male parent).

slats: Timber slatted floors are often combined with deep litter to form dropping pits and to keep the litter in better condition. A more recent application has been in deep pits beneath laying cages to

catch some of the droppings and help drying. This system is tending to be superceded by the slot system whereby the manure partially dries beneath each tier of cages before being pushed into the pit down a slot between the back to back cages. Padded slats have been tried for broiler chicken to save litter and avoid breast blisters but have not been taken up commercially.

slipped wing: A wing in which the primary flight feathers hang below the secondaries when the wing is closed. This condition is often allied with split wing, in which primaries and secondaries show a very distinct segregation in many breeds of bantams.

soft-shelled eggs: Occur mainly when pullets are coming into lay rapidly before the egg shelling mechanism has settled down. But if they occur in association with thinner and weaker shells in older birds then calcium intake may be too low or a respiratory disease present.

sour crop: A condition in which the crop remains distended with full of sour, fermenting liquid. See crop bound, impacted crop.

SPF: Specific pathogen free.

spike: The rear leader on a rose comb.

spur: A projection of horny substance on the shanks of males, and sometimes on females.

stag: A male chicken (usually under 10 months of age) with coarse skin, somewhat toughened and darkened flesh, and considerable hardening of the breastbone cartilage. Stags show a condition of fleshing and a degree of maturity intermediate between that of a roaster and a cock or rooster.

standardization: 1. Conforming to some standard. 2. The act of selecting the most suitable dimensions or proportions or characteristics for any material product or process. Its end product may take the form of: a document containing a set of conditions to be fulfilled (specifications or code of practice), a fundamental unit or physical constant such as ampere, or an object for physical comparison such as metre.

starter: Chick of either sex in the age group of 0 to 8 weeks of age.

started chicken: Young chickens(pullets, cockerels, etc.) which have been fed and watered and are less than six months of age.

starting mash: A specially prepared mash, a mixture of ground cereal or cereal product, with protein, vitamin, mineral supplement added, to serve as a complete feed for young chicks from 1 day to 8 weeks of age.

straights: Single feedingstuffs of animal or vegetable origin, which may or may not have undergone some form of processing before purchase. Straights rarely provide, in their own right, the complete nutritional requirements of livestock. Some examples of straights are: wheat, barley, flaked maize, field beans, groundnut cake and meal, soya bean meal, fish meal, meat meal, meat and bone meal, etc. Straights form the basis of all forms of technically formulated feeds whether mixed on the farm or manufactured.

strain: Group of fowls within a variety, usually named after breeder responsible for its development. Also regarded more or less as a family of fowls developed with some special characteristics in view.

strain cross: Progeny resulting from crossing two or more strains.

stress: A physical, chemical or emotional factor along with management errors that cause physiological or mental tension and may be a contributory factor towards lower production and disease causation. As well as correcting the error, it can speed recovery by giving minerals/electrolytes/vitamins in the water.

super-concentrate (basemix): A highly enriched feed mixture formulated to be mixed with grain and vegetable protein.

sweating: Condensation of moisture on the outer surface of the eggs held in cold storage when they are suddenly exposed to high atmospheric temperature.

T

table birds: Old term that has generally been superceded by 'meat birds' which are specifically bred for this purpose. They include: Broilers, Turkeys, Ducks, Geese, Poussin, Capons, guinea fowl and quail.

tail feathers: Straight and stiff feathers of the tail only. The top pair are sometimes slightly curved, but they are generally straight or nearly so. In the male fowl, main tail feathers are contained inside the sickles and coverts.

tapioca flour: The product obtained by grinding dried tapioca chips/tubers.

TDN: Total Digestible Nutrients of a feed ingredient. Calculated by multiplying the percentage of each nutrient by its digestion coefficient.

temperature: Poultry grows best in temperature within its zone of comfort, 55° to 70°F for layers and 75°F for broilers.
thigh: That part of the leg above the shank, and covered with feathers.
thin white: The fluid part of an egg. The white of an egg consists of four alternating envelopes, of thick and thin white the outermost being made up of the thin white.
toe pecking: Form of cannibalism.
trace elements: Some are contained in the raw materials used to make compound feeds but those which are frequently supplemented to ensure that the necessary small amounts are present in diets are: copper, manganese, iodine, zinc, selenium, iron and magnesium.
trap nest: A laying nest with a specially designed automatic front, so that the layer gets trapped when she enters to lay egg. Used in breeding programmes to record individual bird's egg production and identity of progeny. Its invention, early this century, is an important land-mark in the history of poultry breeding.
trussing: Tying and shaping table poultry.
turkey: A large wild or domesticated bird with small naked head, strong legs and wings and a spreading tail. Raised for its delicious meat. Native to America. Broad Breasted Bronze, White Holland, Beltsville Small White and (White) crosses are common varieties.
turnkey: Huge package deal for complete poultry farms or complexes, which may include breeding, hatching, rearing, laying, egg packing and slaughter plants. Companies specializing in turnkey projects usually see the whole job through from feasibility studies to training staff and providing a management service.

U

unabsorbed yolk: In hen's egg, the remaining yolksac is withdrawn into the body cavity on the nineteenth day. It is connected directly to the intestine and is absorbed rapidly after hatching.
uridentified growth factor: Not all the nutrients in feed raw materials have been identified. UGF's are said to be present in fish meal, grass meal and in dried poultry manure.

V

vaccination: A practice of artificially building up body immunity against specific infectious disease through inoculation with a specific antigen.
vaccines: Preparations of dead or weakened disease-causing viruses for immunization against those diseases. Some bacterial vaccines are also used but diseases caused by bacteria are more readily controlled by antibiotics and disinfectants All commercial stock are given routine vaccination via water, spray, eyedrop or injection against major diseases.
variety: A definite branch of a breed known by its distinctive colour or marking — for example, the Black is a variety of the Leghorn. Sub-variety, a sub-division of an established variety, differing in shape of comb from the original—for example, the Rose combed Black is a sub-variety of Black Leghorn. Thus the breed includes all the varieties and sub-varieties which would conform to its standard.
vent: The anus; cloacal or anal aperture in lower vertebrates. Through this opening birds pass faeces, urine and eggs, etc.
vent gleet: Also called cloacitis. Ulcerative condition of cloaca of fowls; characterized by the cloaca and vent getting inflamed, skin around vent becoming swollen, reddened and ulcerated, emitting an offensive odour; voiding of offensive smelling droppings and liquid.
ventilation: The replacement of foul, moist air with fresh air in poultry houses, but care should be taken to avoid direct draft and cold; helps save feed and maximize egg meat production.
vent picking: One or several chickens picking the everted vent of another, a vice of poultry. See cannibalism.
vent sexing: Japanese method of sexing day-old chicks, by examination of genital eminence found just inside the vent.
very heavy breeds: Chickens of large breeds such as Brahma, Langhan, Cochin, Orpington, Cornish and Jersey Giant.
vices: Habits which spread among a flock (See feather-picking and cannibalism). Egg eating can also be a problem in all types of housing. Best prevention is to ensure that eggs roll out of reach of the bird. If this is not achieved an electric fence wire or screen between

the egg catchment area and the birds may be effective.

W

washing eggs: If eggs for consumption are washed they are relegated to quality class B under EEC regulations, but in the USA most eggs are washed and oiled and a large proportion of hatching eggs world-wide are washed before being incubated. Machines range from batch/bucket types to continuous flow, spray-wash designs handling thousands per hour.

water: More important than feed. You only have to recall how long hunger strikers survive to appreciate that liquid intake is the prime dietary need to sustain life and production. Two days without water and egg production can be reduced to nil and the birds to a moult. Water meters can be good indicators of health and a check on the supply which in any case should be checked morning and evening. Round hanging drinkers for floor systems and nipple drinkers for cages have come out tops. Water consumption by layers varies between 5-10 gal/day/100 (22-45 litres), depending on temperature and rate of lay.

waterer: An appropriately designed equipment for providing clean, cool drinking water to the chicken.

wattle: The fleshy appendage at each side of the base of beak, more strongly developed in male birds.

web: A flat and thin structure. Web of feather: the flat or plume portion. Web of feet: the flat skin between the toes. Web of wing: the triangular skin seen when the wing is extended.

whey, dried: The dried by-product from the manufacture of cheese or casein.

whiskers: Feathers growing from the sides of the face.

White Cornish: A breed of English class, commonly used as a male line for producing commercial hybrid broilers.

White Leghorn (WLH): An outstanding light breed originally from the Mediterranean, it is well known for high level performance and has established many egg-laying records. It is the basis of the best crossbreds for eggs or meat. Neatest of all birds, small and very compact, it is the most favoured commercial bird on account of its excellent laying quality and quick growth factor — laying at least two-three weeks earlier than the heavy breeds. WLHs normally start laying at six months of age — often even earlier at five months. In the first laying season it can lay 284 first grade eggs. These birds are practically free from broodiness and are more successfully handled under intensive conditions of housing than other breeds. In India, the WLH has given good results, especially in drier regions. The breed was introduced in the country by foreign missionaries and planters early this century.

white of egg: (see albumen.)

wing band: Identification disc fitted to the bird's wing.

wing coverts: The feathers covering the roots of the secondary quills.

wish bone: The clavicle, which is the forked bone located in front of the breast bone (sternum).

worms: Five types of worms need to be guarded against when birds are kept on the floor: Caecal — harmless but harbour the organism causing blackhead in turkeys; Gape — causing gasping; Hair — parasites of the intestines which cause emaciation; Round — intestinal parasites; Tape — less common as they require an intermediate host. All can be treated via feed or water, but thorough between-batch cleaning of floors and lower walls is best.

X

xanthophyll: Pigment in feed that gives yolks their colour and colours the flesh. It occurs in different forms in maize and grassmeal. Synthetic pigments are also used to produce a blend that gives the desired yolk colour.

Y

yolk: See egg yolk.

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Farms/Farmers

Commercial poultry farms/farmers are listed statewise and further sub-grouped by districts. Figures in brackets show bird strength—'L' for layers and 'B' for broilers. The first three digits of PIN code are given along with district heading, the remaining three with the town/PO.

Andhra Pradesh

ADILABAD (Pin: 504---)

Prakash PF, Bellampally -251 (7,000 L).
Shekar Rao, Dr P Soma, Bellampally, Mancherial Tq (10,000 L).
Sri Rama PF, PO Bellampally -251 — Dr Somasekhara Rao.
Vijayalakshmi PF, Adilabad; Prop: Janardhan Reddy (9,000 L).

ANANTAPUR (Pin: 515---)

Sri Venkateswara PF, Venkateshwarapuram, PG Centre, Anantapur -003 — K Sudhakar Reddy.
Super PF, Kirikera -211, Hindupur; Ph: 122, 322 (Hindupur); Prop: L G Balakrishna (25,000 L).

CHITTOOR (Pin: 517---)

Annaiah Chetty, C, Old Pet, Palamaner -408 (2,000 L).
Balaji Hatcheries, Vellore Rd, Reddigunta, Chittoor -002; Ph: 2766, 2256 (resi) — Dr V Sunder Naidu (20,000 L, 2,000 B).
Chetna PF, S N Puram, Tirupati, K V Puram PO, Puttur -583; Ph: 32 — N Janardhana Raju, Doraiswamy Naidu, A Venkatramapuram.
Chittoor Dist Poultry Farmers' Cooperative Society Ltd, Janatha Bazar, Bui, PB No 48, Chittoor -001; Mg Dir: Dr K Ramachandra Reddy.
Jagannadhan Naidu, C, Brahmanakalva, Puttur Tq (4,600 L).
Kannaiah Naidu, M, Gujulapalli, PO Mapakshi (4,700 L).
Krishnaiah Chetty, B, Old Pet, Palamaner -408 (3,000 L).

See also LATE ADDITIONS at the end of the listing

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Kumar PF, PB No 32, Madanapalle -325 -- Smt B Revathi (2,000 L, 2,000 B).
Labhi Reddy PF, Renigunta Rd, Tirupati -501; Ph: 2426 (6,000 L)
Latha PF, Nagari -590, Satyavedu Tq (4,000 L).
Lokanath, M, 1/22/53 Gudiattam Rd, Palamaner -408; Ph off: 250, resi: 277 (12,500 L).
Mahalakshmi PF, Sugar Factory, Chittoor -001 (2,500 L).
Nagaraja Guptha, B, Bazar St, Palamaner -408 (5,000 L).
Narasa Raju, V, Satyanarayanapuram, Tirupati -501 (4,500 L).
Narayana Reddy, S, 144 T P Area, Tirupati -501 (8,000 L).
Nataraj, B M, Old Pet, Palamaner -408 (4,000 L).
Ramesh PF, Tilak Rd, Tirupati -501; Ph: 2352 -- P Subramanyam (6,000 L).
S R PF, Renugunta Rd, Tirupati -501; Ph: 2881 -- K Radha Krishna (6,000 L).
Sri Balaji PF, M S Rd, Palamaner -408; Ph: 95; Farm: Nangamangalam -132 (5,000 L).
Subramanyam, Dr P, Tilak Rd Ext, Korila Gunta, Tirupati -501 (8,900 L).
Vani PF, S N Puram, Tirupati -501 -- V Narasaraju (4,000 L).
Venkateshwara PF, PO Reddigunta, Chittoor -002 (4,000 L).
Vijaya PF, Round Rd, Palamaner -408; Ph: 250, 277; Prop: M Natarajan (10,000 L).

CUDDAPAH (Pin: 516---)

Emessor PF, PO Chinnachowk, Cuddapah -001; Ph: 2510 -- R Kusuma Kumari Reddaiah (5,000 L).
Hari PF, Kodur -101, Rajampet Tq -- Narasimhulu (4,000 L).
Krishna PF, Near Andhra Cotton Mills, Mydukum Rd, PO Proddatur -360 -- Subbarayudu Chetty (4,000 L).
Mahavubsubhani PF, Poorapadu, Douladdin, Proddatur -360 (4,000 L).
Mahboob Subhani PF, Porrapadu Rd, Proddatur -360 (4,000 L).
S R K PF, Door No 9/289, Kasi Rao Garden, Ramarajupally, Cuddapah -001; Ph: 169 -- S Ramakrishna Reddy.
Sarvodaya PF, Mariappuram, Cuddapah (4,000L).
Sreenivasa PF, Reddivaripalli, Kodur, Rajampet (4,000 L).
Sri Balaji PF, Rajampet, Brahmampalli 522437 (4,000 L).
Sujatha PF, Cheeta Kottala, Proddatur -360 (3,500 L).
Sumati PF, Poorapadu Rd, Proddatur -360 -- K V Rama Rao (4,000 L)

EAST GODAVARI (Pin: 533---)

Balaji PF, Sunandapet, Anaparthi -342; Ph: 169 -- N Venkata Reddy (6,000 L).
Bhaskara Reddy, S, Pandalapaka -345, Ramachandrapuram Tq (15,000 L).
Chowdary, I R G, Tapeswaram PO, via Mandapeta; Ph: 257 (5,000 L).
Jogi Reddy, T, Tossipudi (4,600 L).
Paramesu PF, Duppalapudi, Anaparthi -342; Ph: 170; Prop: Dr T Krishna Reddy (30,000 L).
Sathi Raju, D, Mettura (2,300 L).
Sri Muralidhara Gopala PF, Mandapeta PO -308; Ph: 199; Prop: V V S S Chowdary (15,000 L).
Srinivasa PF, Sunandapet, Anaparthi -342; Ph: 133 -- S Kishore (8,000 L).

GUNTUR (Pin: 522---)

Alluriah, Dr A, 6th line, Chandramoni Nagar, Guntur -002; Ph: 24185.
Anji Babu, D, Itha Nagar, Tenali PO -201.
Annapurna Poultry & Agricultural Farms, 24-2-10/1 Chaparalavari Veedhi, R Agraharam, Guntur -003; Prop: N Vinayaka Rao. Farm: Chowdavaram PO (10,000 L).
Appa Rao, T, Chowdavaram, Prathipadu Tq; Ph: 21025 (8,000 L).
Appaji Rao, Near J M J College, Tenali -201.
Balaji Farms, Old Police Line, Lalapet, Guntur -003; Ph: 22474 -- A Samba Siva Rao (2,000 L).
Balaji Poultry & Dairy Farm, c/o Thirumala Dresses, 6/9/111 Arundelpet, Guntur -002; Ph: 21929.
Bhadra Reddy, L, Vallabhapuram PO, Emani Tq -308.
Bhaskara Rao, K, Yerravari St, Tenali -201.
Chanda PF, Kondrupadur Vill, PO Pratpadu -019 -- A Samba Siva Rao (3,000 L).
Dhanalaxmi PF, 1/2/23 Vijayapuri, Ring Rd, Guntur -004; Ph: 23253 -- O Sambi Reddy.
Durga Poultry Dairy & Agricultural Farm, Patel Nagar, Bapatla -101; Mg Partner: N Pitchiah Chowdary (10,000 L).
East Coast PF, Perecherla -005, Guntur; Ph: 41 -- Masthan Rao (5,000 L).
Egg Bank, 11 Arundelpet, Guntur -002.
Hilal PF, Perecherla -- A S I Jaffer.
Janardhana Reddy, V, Munnagi PO, Emani Tq.
Jayalaksmi PF, Nandirajuthota PO, Bapatla Tq -120; Prop: T Jayaprakash Narayana (10,000 L).
Krishna Rao, L, c/o Eggmore Feeds, Amaravathi Rd, Guntur -034; Ph: 23322.
Krishnaiah, P L B V, Nidubrolu PO -123, Ponnuru Tq.
Krishnamurthy, M, Lingamgutla Colony,



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Narasaraopet, Guntur (6,000 L).
Lakshminarayana, M, Near J K G College, Guntur -001; Ph: 23355 (3,000 L).
Lakshmi Reddy, V, Munnagi PO, Emani Tq.
Mallikarjuna Rao, Near V S R College, Tenali PO -201.
Manjeshri PF, Vinjanampadu PO, Prathipadu Tq -019 (6,000 L)
Mohan Rao, Dr V Jagan, Chowdavaram PO, Prathipadu Tq -019.
Narayana, M L, Amaravathi Rd, Gorantla PO 515231.
Prasad PF, c/o Chowdary Egg Bank, Station Rd, Guntur -001 — Atluri Prasad.
Rajendra Prasad, E, Near V S R College, PO Tenali -201.
Rajeswara Rao, B, PO Angalakunduru -211, Tenali Tq.
Ramachandra Rao, N, PO Gogulamudi -015 (3,000 L).
Rambabu, K, Amaravathi Rd, PO Gorantla 515231.
Reddy, Alla Guru Prasada, PO Vallabhapuram -290; Ph: 36 PP (1,000 L).
Sambasiva Rao, K, Ravipadu PO 523370, Prathipadu Tq.
Satyanarayana, K, Edupulapalem, Guntur -001 (3,800 L).
Satyanarayana, K, Vinjanampadu PO, Prathipadu Tq -019.
Shivaji, D, Kondrupadu PO, Prathipadu Tq.
Sreenivasa PF, PO Kollipara -304; Mg Partner: B Venkata Reddy (2,000 L).
Sri Bhavani Poultry House, PO Kothareodypalem, via Chebrole — G Sundara Rami Reddy.
Srinivasa PF, G B C Rd, Bapatla -101 — P Veeraiah (4,000 L).
Suba Rao, Brindavan Gardens, Guntur -001; Ph: 23240 (4,000 L).
Sudhakara Rao, K, Yerravari St,Tenali-201.
Veeraiah, M, Ravipadu PO 523370, Prathipadu Tq.
Venkateshwara PF, Avti Rd, Guntur -002; Ph: 23354 (16,000 L).
Venkateswara Rao, D, Near J M J College, Tenali PO -201.
Venkateswara Rao, K, Yedlapalli PO, Tenali Tq.
Venkateswara Rao,T,9th Ward,Repalle PO-265.
Venkateswarlu, R, Vinjanampadu PO, via Etukuru, Prathipadu Tq -017.
Vinayaka Rao, N, Chowdavaram PO, Prathipadu Tq.

HYDERABAD (HYD), SECUNDERABAD (SEC) & RANGA REDDY (R R DIST)

Abdul Majeed Khan, 9-5-100 Ramdevguda, PO Ibrahimbagh, Hyd; Ph: 31548 (10,000 L).
Abdullah PF, Vill Pahadisharief, Via Keshavagiri, Hyd (51,000 L).
Abid PF, Vill Turkayamjal, PO Mangalpally, Hyd 501510; Prop: Abid Ahmed (8,000 L)
Adarsh PF, Bonguloor, Mangalpalli PO, Turkayamjal, Hyd 501510 (70,000 L).
Adinarayana,N,Peddamberpet,Hayatnagar,Hyd.
Adisheshamma PF, Kuntloor Rd, Hayatnagar, Hyd 501550 (8,000 L).
Aditya Layers, Pheefzadiguda, Via Uppal, Hyd 500039.
Ahuja PF, House No 4-101/4 Saroornagar, Hyd 500035 (10,000 L).
Ajay Farms, c/o Mohd Munna, Miyapur, BHEL Rd, Hyd (4,500 L).
Ajay PF, 3-6-311 Hyderguda, Hyd 500001 (10,500 L).
Ajay PF, Survey No 134/20 Mir Alam Tank, Hyd 500002; Ph: 48133, 35492 (resi) — K Rameshchandra Reddy (11,000 L).
Ali PF, Chintalkunta, Hyd (9,500 L).
Allah Ram PF, Beside Zinda Tilismat Factory, Amberpet, Hyd 500044; Ph: 32003 — Dr Bhoja Reddy (5,000 B).
Alphones, Poliselly, c/o James, Kammaguda, Via T'Yamjal, Hyd 501510 (9,000 L).
Amar PF, Badichowdi, Hyd (10,000 L).
Ambica PF, Madanpally, Via Shamshabad, Hyd (4,500 L).
Amula, V S, Torroor Rd, Hayatnagar, Hyd 501505 (15,000 L).
Anansuya PF, c/o Suryanarayan Raju, Kompally, Hakimpet, Sec 500014.
Anantha Reddy, P, Hayatnagar 501505, Hyd (6,000 L).
Anasuya, G, Turkayamjal, PO Mangalpally, Hyd 501510; Ramesh Babu (22,000 L).
Anasuya PF, 7/26 Mir Md Saheb Pahad, Rajendranagar Rd, Hyd 500034; Ph: 48000 — Smt G Anasuya (15,000 L).
Andal, Smt T, PF, 16/11-20/6/4 Saleemnagar, Malakpet, Hyd 500036.
Andalu, Smt M, c/o Upender Reddy, Kammaguda, Mangalpally Post 501510, Hayatnagar Tq.
Andhravani, Smt N, 6-3-609/179 Anandnagar Colony, Kairathabad, Hyd 500004.
Anil Reddy, T, House No 4/A, Saidabad Colony, Hyd.
Anjaiah, G, Kompally, R R Dist (10,000 L).
Anji Reddy, Sahebnagar Vill, Saroornagar PO, Hyd 500035 (10,000 L).
Anji Reddy, c/o A 1 Feeds, Kothapet, Via Dilsukhnagar, Hyd 500036 (18,500 L).
Anji Reddy, P, PF, Anajpur, Hayatnagar 501505, R R Dist.
Annapurna Agricultural Mixed Farm, Vill Narsingi, Via Kokapet, Hyd 500008 — Ram Prasad (19,000 L).
Annapurna PF, Canaranagar, Via Uppal,

Hyd 500039 — Smt U Annapurna.
Annapurna PF, R K Puram, Via Kothapet, Hyd 500036 -- Koteshwara Rao.
Annapurna PF, 8-76 Chaitanyapuri, Hyd 500036; Ph: 59058 -- Meka Sreeramulu (40,000 L).
Annapurna PF, Narapally, Via Ghatkesar, R R Dist (4,000 L).
Annapurna PF, Tukkuguda, PO Mankhal, Maheswaram Tq, Hyd — M Atchaiah (30,000 L).
Annapurna PF, 6-2-952/4B, Khairatabad, Hyd 500004 — Smt J Vimala (14,000 L).
Annuradhika PF, Turkayamjal, Mangalpally PO, Hayatnagar Tq, Hyd 501510 — Smt P Rathnakumari (15,000 L).
Anwazi PF, Rahmatnagar, Yousufguda, Hyd 500045; Ph: 261689 — L Venkat Reddy (6,000 L).
Appa Rao, N V, Gaganpahad, R R Dist (14,000 L).
Appa Rao PF, Torrur Rd, Mamella, Hayatnagar, Hyd 501505 (18,000 L).
Appala Raju, B, PF, Kompally, Via Hakimpet, Sec 500014 (18,000 L).
Arpita PF, c/o Damodar Reddy, J P Nagar, Mamilla Complex, Hayatnagar 501505, R R Dist.
Aruna PF, 4-41 Srinagar, Gandipet, Hyd.
Arvind PF, No 5 Chikot Gardens, Medchal, Begumpet, Sec 500016; Ph: 77381 — Capt P M M Reddy (4,000 L).
Ashok PF, Turkayamjal, PO Mangalpally 501510, Hayatnagar Tq, R R Dist.
Ashok Reddy, B, s/o B Linga Reddy, Injapur, PO Saroornagar, Hyd 500035.
Ayodhya PF, Gundlapochampally, Sec 500014 -- K V Ramaraju (17,000 L).
Azmat Kathoon, Smt, c/o Sabbir Ali Khan, 16-4-384/1 Chanchalguda, Hyd 500024 (7,000 L).
B C PF, Vill Turkayamjal, Nagarjuna Rd, PO Mangalpally 501510; Ph: 29 — G K V Kondala Rao (11,000 L).
B L K PF, Vill Turkayamjal,PO Mangalpally, Hyd 501510--B Balakrishna Rao(18,000B).
B Rajpal Yadav & Bros, Bonguloor Vill, Mangalpally PO, Hyd 501510 (6,000 L).
B V Reddy, Kompally, PO Hakimpet, Medchal Rd, Sec 500014 (4,000 L)
Baari, Ankushapur, Via Ghatkesar, R R Dist (14,000 L).
Baba PF, 18-8-254/1/A Beside Arundati Nagar, Opp DRDL, PO Falaknuma, Hyd — Mohd Asgar (5,000 L).
Babi Reddy, M, Turkayamjal Vill,PO Mangalpally, Hyd 501510 (6,500 L).
Bal Reddy, Bommidi, s/o Ram Reddy, Sahebnagar, Hayatnagar 501505, R R Dist.
Balaji Egg Farm, 4-118 Moosapet, Opp Taj Glass Factory, Sanathnagar Post, Hyd 500018 -- T Shree Ramulu (8,000 L).
Balaji PF, Bairamalguda, Saroornagar, Hyd 500035 -- K Suresh (12,000 L).
Balaji PF, Canaranagar, Pheerzadiguda, Via Uppal, Hyd 500035 -- Smt Umavathi (5,000 B).
Balaji PF, Kompally, Via Hakimpet, Sec 500014 -- Gajula Anjaiah (15,000 L).
Balaji PF, Pedda Amberpet, Hayatnagar Rd, Hyd 500018 (6,000 L).
Balaji PF, 2-26, Champapet, PO Saroornagar Hyd 500035 — M Rami Reddy (12,000 L).
Balwantha Reddy, J,Gandicheruvu,PO Abdulla Puram 518534, Hyd, R R Dist.
Bangaru Raju PF, Vill Kompally, PO Hakimpet, Medchal Rd, Sec 500014; Ph: 79236; Prop: G Bangaru Raju (20,000 L).
Basaveswar PF, c/o Somappa, Rachaloor, Maheshwaram Tq, R R Dist.
Beka PF, 17-2-311 Near Three Temple, Kurmaguda, Hyd 500659.
Bhagyalakshmi PF, Opp Siris L B Nagar, Hyd — R Yadav Reddy.
Bhagyalakshmi PF, Near Pragathi Feeds, Hayatnagar, Hyd 501505 -- Anantha Reddy
Bhagyanagar PF, Saroornagar, Hyd 500035 — Venkatappayya & Dr Choudary (8,000 L).
Bhaskar PF, c/o S Pratap Reddy, I-38 Champapet, PO Saroornagar, Hyd 500035; Ph: 53912, 44583 (off) (8,000 L).
Bhaskar Rao PF, Mavilla Complex, PO Hayatnagar; Ph: 66 (Hayatnagar) (9,000 L).
Bhaskara Rao, M, Mamella, Hayatnagar, Hyd 501505 (10,000 L).
Bhavani PF, Gagan Pahad, Hyd East — Shiv Kumar (3,000 L).
Bhavani PF, Shankarpuram, Via Tondapally, Shamshabad, R R Dist — K Ram Reddy (20,000 L).
Bhim Reddy, J, Gurramguda, Via Saroornagar Hyd 500035.



Chadha PF, Bonguloor, Hyderabad (3,000 L)
Champion Farms, PO Saroornagar, Hyd 500035; Prop: V S Reddy (8,000 L).
Chandra Reddy, Jakka, c/o J Krishna Rao, Surmayaguda, Via Laskerguda,PO Abdulla Puram 518534, R R Dist.
Chandra Reddy, S, c/o G Mohan Reddy, Kandikalgata, Hyd, R R Dist.
Chandrakala, Smt J, c/o Mallaiah, Mamilla, Torror Rd, Hayatnagar 501505, R R Dist.
Chandrasekhar, Mamella, Hayatnagar 501505, R R Dist (10,000 L).
Chibber, Smt Rita, Yapral, Bolarum, Sec 500010; Ph: 79052 (farm); 75825 (resi) (8,000 B).
Chick Farms, 9-4-133 Toli Chowki, Via Golconda, Hyd 500008; Ph: 31608 -- Harbajan Singh (24,000 L).
Chiluka Reddy, P, Balapur PO, Via Keshogiri, Chandrangutta, Hyd 500005 (10,000 L).
Chinna Bhaskar Rao, Mavilla Complex, PO Hayatnagar (10,000 L).
Chiranjeeva Raju, A, PO Kothaguda, Via Bahadurpura, Madapur, Hyd 500032 (6,000 L).
Chowdary, M V S, c/o S S Grape Garden, Kothapeta 533223 (10,500 L).
Chowdary PF, Kondlakoyya, Medchel Tq 501401, R R Dist -- A R Chowdary (10,000 L).
Coma PF, Srinagar Colony, Gandipet, Hyd 500008 -- Patel (3,000 L).
Damodar Reddy, A, Bandalguda Vill, Mansurabad PO, Hyd (5,000 L).
Damodar Reddy, Dr B, 1-31 Chaitanyapuri, Hyd 500036.
Damodar Reddy, 16-11-19/9 Saleemnagar Colony, Hyd 500036.
Das, Pujari Laxminarayan, Ramannaguda, Turkayamjal, R R Dist.
Dawood PF,Gaganpahad,Hyd (West) (10,000 L).
Dayanand PF, No 6-115 Shamshabad, R R Dist -- M Dayananda Reddy (10,000 L).
Dayananda Reddy, P, c/o L Gopal Reddy, 4-100 Mansurabad, Via L B Nagar, PO Saroornagar, Hyd.
Deccan PF, c/o Dr Harinath, Patancheru, Hyd (21,000 L).
Deccan PF, 1-69 Snehapuri, Nacharam, Hyd 501507; Farm: Narapally (10,000 L).
Decent PF, c/o Golden Agencies, 21-1-1083 Madina Bldg, Hyd. Farm: Vikarabad Rd, Gandipet (30,000 L).
Deepika PF, Pedda Amberpet, Hayatnagar Rd, Hyd 500035 -- Subba Rao (30,000 L).
Deva Reddy, Injapur, PO Saroornagar, Hyd 500035.
Devi PF, Narsingi, Via Gandipet, Hyd 500008; Prop: Mangula Devi (15,000 L).
Dhanunjaya, N, Vill Munganoor, Via Hayatnagar, R R Dist.
Dharma Reddy, A, 1-16 Nagole Vill, Via Saroornagar, Hyd.
Dharma Reddy, Sahebnagar, Saroornagar, Hyd 500035 (5,000 L).
Draksha Kunj, PO Gagan Pahad, Hyd East; Ph: 48009 (4,000 L).
Durga PF, Devarayamjal, Medchel Tq, R R Dist; Prop: Balakrishnam Raju (20,000 L).
Egg Farms, 16-1-484 Saidabad, Hyd 500659; Ph: 34253 (off), 53920 (farm), 223139 (resi) -- Harbans Singh (20,000 L).
Egg House, Ambarpet, Hyd 500044 (6,000 B).
Egg Worth Farms, H No 16-3-569/1/3, Opp RTA Office, Kairathabad, Hyd.
Empire Farms Private Limited, Vill Golluru, Maheshwaram Tq, R R Dist; Ph: 43 (Shapur Ex); Mg Dir: C B R Prasad; Dir: K Suresh; Ph resi: 66774.
Eswar Reddy, M, 16-1-501, Reddy Basti, Saidabad, Hyd.
Ethesham Poultries, 5-24 Pisalbanda,Roshanbagh, Via Champapet, Hyd 500258; Ph: 44165 (10,000 L).
Farath PF, c/o Abdul Quadar, Turkayamjal, R R Dist.
Farooqi PF, 20-5-653 Shali Banda, Near Asha Talkies, Hyd 500002.
Fathima PF, House No 2-132, Vill Milardevpally, PO Kesavagiri, Hyd 500005 (5,000 L).
Fayaz Khan, Durga Hussain,Shawali, 7/2, R R Dist.
Fazal Poultry & Agriculture Farms, 1-64 Bahadurguda, PO L B Nagar, Hyd 500035; Ph: 59311 (20,000 L).
G Janardhana Reddy PF, PO Saroornagar, Hyd 500035 (15,000 L).
G Krishna PF, Turkayamjal, PO Mangalpally, Hyd 501510 (8,000 L).
G Suchasita PF, New Nallakunta, Opp Sri Vidya Primary School, Hyd 500004 -- Laxman Reddy (8,000 B).
Gajwel PF, Shamshabad, Hyd (14,500 L).
Gandhi Raju, Petbashirabad, Via Kompally, Medchel Tq, R R Dist (10,000 L).
Ganga Raju, Kothaguda, Via Gandipet, Hyd (6,000 L).
Geeta PF, Jillalguda, Via Saroornagar, Hyd 500035 -- V Bheem Reddy.
Gold Mine PF, Kandlakoya, Medchel Tq, R R Dist -- Rahmatulla (13,000 L).
Golden Egg PF, Aziz Nagar, Gandipet, Hyd 500008 -- K Mallikarjun Rao (55,000 L).
Gopal Reddy, Subhanpur, Via Mankhal, R R Dist (13,000 L).
Gopal Reddy, E, s/o Raj Reddy, Brahmanpally, Hyd.
Gopal Reddy, P, Vill Subhanpur, Via Sham-

shabad, Maheswaram, R R Dist (10,000L).
Gopichand, A, 10-3-521/1, B-62, F-1, Vijayanagar Colony, Hyd 500028.
Goutami PF, c/o V Krishna Rao, Plot No 57, A B Colony, Malakpet, Hyd (6,000 L).
Goverdhan Rao, M, c/o M Ranga Rao, Doddu Uppal Vill, PO Uppal, Hyd 500039.
Govind Reddy PF, Vill Kompally, PO Hakimpet, Sec 500014 -- Dr Govind Reddy (7,500 L).
Govinda Rao,P, Autonagar, Hayatnagar, Hyd 501505 (5,200 L).
Green Acres PF, 16-8-240/9 New Malakpet, Hyd 500036 -- D L Narsimha Rao (10,000 L).
Green Acres PF, 6-2-977 Gulistan, Khairatabad, Hyd 500004; Farm: Ghatkasar; Prop: Syed Abdul Waheeb (20,000 L).
Guru Raju PF, Vill Kompally, PO Hakimpet, Medchel Rd, Sec 500014; Ph: 79082 -- Guru Raju, Smt Seethayamma (32,000 L).
Hanifa PF, Survey No 8/3 Madanpally, Via Palmkole, Shapur; Local address: Haji Mohd Hussain, Feed Merchants, Meeralam Mandi, Hyd.
Hanmanth Rao, G, Inzapur Rd, Hayatnagar, Hyd (4,000 L).
Hanmanth Rao, Ch, Kuntloor Rd, Via Hayatnagar, Hyd 501505 (20,000 L).
Hanuman PF, Jafferguda, Batasingaram -- Narasimha Reddy (4,000 L).
Hanuman PF, Batasingaram, Hayatnagar, R R Dist -- N Ramulu (5,000 L).
Hanumayamma, Smt U, c/o U Venkateshwarlu, Canaranagar, Pheerzadiguda, Hyd East.
Harinarayana PF, Hayatnagar, Injapur Rd, Hyd 501550; Prop: E Peda Harinarayana (6,000 L).
Hema PF, Gangan Pahad, Hyd East; Ph:48076 -- N Hemalatha (8,000 L).
Hema Poultry Complex, c/o N V Apparao, 3-6-682 Himayatnagar, Hyd 500029 (25,000 L).
Hind PF, Behind Sainikpuri, Yapral (6,000 L & B).
Hindustan Egg Farm, Azeeznagar, Vikarabad Rd, Hyd (5,000 L).
Hy-Fed Poultry Farms, Chintal Kunta, Saroornagar, Hyd 501505, Via Hayatnagar; Ph:59237--Shaik Imam (15,000 L).
Hy-Lay White Farm, Vill Gurramgudda, Saroornagar, Hyd 500035 -- C R Mohan Rao (10,000 L).
Hy-Luck PF, 20-5-643 Shakkargunj, Hyd 500265 -- Mohd Ibrahim Khan.
Hy-Way Farms, Pedda Amberpet, 22 Km Stone, National Highway No 9, Vijayawada Rd, Hyd 501505, Via Hayatnagar; Ph: 59383 -- Vikaruddin S Imam (40,000 L).
Ibrahim, Mohd A, c/o Khaza Meeram, 17-9-396 Chowninader Ali Baig, Yakatpura, Hyd 500002.
Imran PF, 17-1-104/5/1 Edibazar, Hyd 500659; Prop: A R Imran (10,000 B).
Indira Rao, Smt S, c/o Venkar Rao, Near Sarada Talkies, Saroornagar, Hyd.
J B PF, Turkayamjal, PO Mangalpally, Hyd 501510 (9,000 L).
J Vimala PF, Mamella, Via Hayatnagar, Hyd 501505 -- Srinivasa Rao (17,000 L).
Jagan Mohan Reddy, Turkayamjal, PO Mangalpally, R R Dist (30,000 L).
Jahanuma PF, "Deepika", Jahanuma, Hyd 500002; Ph: 46233 -- P Venkaiah (4,000 L).
Jalaiah Naidu, H No 1-10-124 Ashoknagar, Hyd 500020; Ph: 48062, 62794 (resi) (12,000 L).
Janardhan Reddy, G, Bairamalguda, Saroornagar, Hyd 500035.
Janga Reddy, V, PF, Pasumala Rd, Peddamberpet, Hyd.
Janso Exports (P) Ltd, Drakshakunj Estate, Gaganmahal, Hyd.
Jaya Poultry & Agril Farms, 3-6-102/A Himayatnagar, Hyd 500035.
Jayalakshmi PF, c/o Prakash Rao, Bairamalguda, R R Dist.
Jayalakshmi, Smt T, c/o T Seshaiah, PO Pheerzadiguda, Via Uppal, Hyd 500024.
Jayalaxmi, Smt M, House No 4-1-1046 Boggulkunta, Hyd.
Jayalaxmi PF, 9-13/A Durganagar Area, Dilsukhnagar Post, Hyd 500002 -- Hanumanth Rao (3,000 L).
Jayanthi, Smt Laxmi, 3-5-776 Opp New Science College, Narayanguda, Hyd 500020 (5,000 L).
Jayasree PF, Rallaguda, Anajpur, Shamshabad, R R Dist.
Jhansi Laxmi PF, c/o Satyanarayana Raju, Gundlapochampally, Via Hakimpet, Medchal Tq, R R Dist.
Jhansi Laxmi, Smt N, 6-3-609/179 Anandnagar Colony, Khairathabad, Hyd.
Jilani, Devara Yamjal, Medchal Tq, R R Dist (10,000 L).
Jitendra PF, Saidabad, Hyd 500659; Ph: 59025 -- J Patel (11,000 L).
Jogi Raju PF, S R K Puram, I T Colony, Saroornagar Post, Hyd 500035 (4,000 B).
K Syed Jan, Khilwat Rd, Off Murgi Chowk, Hyd 500002 (7,000 L)
Kakatiya PF, Turkayamjal, Manimuthyalammakunta, Mangalpally, Hyd 501510 -- J Vengal Rao (30,000 L).
Kaleshwar Rao, Manneguda, Hyd (10,000 L).
Kaleswara Rao PF, Vill Turkayamjal, PO Mangalpally, Hyd 501510 (12,000 L).
Kamala PF, 16-10-234/1 Old Malakpet, Hyd

500036 -- C Krishna Reddy.
Kamala & Deepti PF, Podur, Dongalamani, Via Hakimpet, Sec (18,000 L).
Kamaliya PF, Vill Aushapur, Via Ghatkesar, Hyd East -- Razak Bhai (20,000 L).
Kanakadurga PF, National Highway, Hayatnagar, Hyd 501505 (15,000 L).
Kanaka Reddy, C, Parvathapuram, PO Pheerzadiguda, Via Uppal, Hyd 500039 (20,000 L).
Kapur PF, Bairamalguda, Nagarjunasagar Rd, PO Saroornagar, Hyd 500035; Ph: 59226; Prop: Ramesh Kapur (50,000 B).
Kapur PF, PO Gandipet, Shankarpally Rd, Hyd 500008; Ph: 31444, 36208, 32405 (resi) -- I M Kapur (20,000 L).
Khader, S A, House No 19-2-24/5 Jajamuna, Alibagh, Hyd.
Khan, Mustaq Ahmed, 16-4-77 Chanchalguda, Hyd.
Khan, Mustaq Ahmed, Mankhal Vill, Via Tukkuguda, Maheswaram Tq, R R Dist.
Khans PF, c/o M Faiyaz Khan, Khojaguda, Darga Hussain Shah, Hyd.
Kishan PF, Autonagar, PO Vanasthalipuram, Hayatnagar, Hyd 501505; Ph: 59321 (26,000 L).
Kista Reddy, G B, Shamshabad, R R Dist.
Kondal Rao, G V K, Turkayamjal, PO Saroornagar, Hyd 500035 (11,000 L).
Kontham PF, Pedashapur, Palmakole PO, R R Dist (20,000 L).
Koteshwar Rao, K, Turkayamjal, PO Mangalpally, R R Dist (6,000 L).
Kothaguda Poultry Complex, (Govt Poultry Unit), Kothaguda Vill, R R Dist (18,000 L).
Koti Veeraiah, B, Kuntloor, Via Hayatnagar, Hyd 501505 (15,000 L).
Kotilingaiah PF, Injapur Rd, Hayatnagar, Hyd 501505 (10,000 L).
Kousalya, Smt, House No 1-44, Ranganna-guda, Turkayamjal, Hayatnagar Tq, R R Dist.
Kranthi Farms, Vill Narsingi, Hyd.
Kripakar, Yapral, Sec (10,000 L).
Krishna PF, 279 Gaddiannaram, Hyd 500036; Ph:59005--G Radhakrishnayya(10,000 L).
Krishna PF, Injapur, Dilkush Bagh, Via Saroornagar, Hyd 500035; Ph: 59096 -- K Ranga Rao, Satyanarayana Yadav (10,000 L).
Krishna PF, 16-10-176/1 Old Malakpet, Hyd 500036 -- B Krishna.
Krishna PF, Door No 1-88, Hydernagar, Kukatpally PO, Hyd 500872 (2,000 L).
Krishna Farms, 16-11-740 A, Gaddiannaram, New Malakpet, Hyd 500003; Farm: Tattianaram -- Niranjalal Shah.
Krishna Kumar PF, Gaddi Annaram, Near Yatim Khana, Hyd 500036.
Krishna Murthy, M, House No 8-1-297, Darga Hussain Shawali, Hyd 500008.
Krishna Rao, C V, Turkayamjal Vill, PO Mangalpally, Hyd 501510 (9,000 L).
Krishna Rao, M, Kuntloor Rd, Hayatnagar, R R Dist (16,000 L).
Krishnaiah, M, Kuntloor Rd, Hayatnagar, Hyd 500505 (20,000 L).
Krishnam Raju, c/o Pullam Raju, Changicherla, Bodduppal, Hyd 500039.
Krishna Reddy, B, c/o B Narayana Reddy, 1-8 Chaitanyapuri, Hyd 500036.
Krishna Reddy, J, c/o Pratap Reddy, Abdulla Puram, Hayatnagar Tq, R R Dist.
Krishna Reddy, K, c/o B L Manmohan Reddy, Injapur, Saroornagar, Hyd 500035.
Krishnaveni PF, Kompally, Medchal Tq, R R Dist -- Dr P L N Reddy (25,000 L).
Krupakar PF, 1-8-41/2 Chikkadpally, Hyd 500020 (12,000 L).
Kumar Raju, G, c/o Rajam Raju, Jeedimetla, Hyd 500039.
Kusuma PF, B-68, F-6, P S Nagar, Hyd 500028; Farm: Chilkoor -- P N Bhalla (9,000 L).
Kusuma PF, c/o Sambasiva Rao, Kuntloor Rd, Hayatnagar, R R Dist.
Lakshmi PF, Narsingi, Via Gandipet, Hyd 500008 (7,500 L).
Lal PF, Kuntloor Rd, Hayatnagar, R R Dist -- Ameenuddin (5,000 L).
Lalitha Devi, Smt G, c/o Venkateshwar Rao, Bodduppal, Hyd 500039.
Lalitha Kumari, Smt G, c/o V Ammaiah, Pragathi Chemicals, Nacharam, Industrial Area, Hyd.
Laminarshimha Reddy, M, Vill Tukkuguda, Maheswaram Tq, R R Dist (30,000 L).
Lata PF, China Golconda, Rajendranagar Tq, R R Dist -- G Chandra Reddy.



Laxmi PF, Narsingi, Gandipet, Hyd (3,000 L)
Laxmi, S S, c/o S V S Raju, Qtr No 14, Indira Prasta, SBI Staff Colony, Behind Kharkhana,Sec 500003(22,500 L).
Laxmi Narsimha PF, c/o C Narsimha Reddy, Sarpanch, Peddamberpet, Via Hayatnagar, R R Dist.
Laxmi Venkateshwara PF, 1-79 Budwel, Rajendranagar, R R Dist -- C Venkatram Reddy.
Laxmikantham, Smt P, c/o Konda Reddy, 477/2 Railway Qtrs, Chilkalguda, Sec.
Lay More PF, c/o Suresh Feeds Products, Injapur, Saroornagar, Hyd 500035.
Leo Farms, Yapral, Bolarum, Sec 500010; Ph: 73634 (4,000 B).
M Narasimha Rao, Vill Injapur, PO Saroornagar, Hyd 500035 (7,000 L)
M S Abdullah PF, Khilwat Rd, Near Murgichowk, Hyd 500002 (12,000 L).
Madhu PF, 5-22 Sri Ramakrishnapuram, Hyd 500035; Ph: 59379 -- Narayan Rao.
Madhu PF, Vill Turkayamjal, PO Mangalpally, Hyd 501510 (40,000 L).
Madhukar Rao, M V, 16-9-875 Old Malakpet, Hyd.
Mahedi Miyya, PO Injapur, Tq Hayatnagar (12,000 L).
Mahendar Reddy, K, s/o K Ram Reddy,Muchintal, Palmakole, Rajendranagar,R R Dist.
Mahipal Reddy, s/o K Rami Reddy, Via Muchintal, Palmakole, R R Dist.
Malla Reddy, M, Nednoor Vill, Maheswaram Tq, Via Shamshabad, Hyd (4,000 L).
Malla Reddy, P, Vill Kuntloor, Medchal Tq, R R Dist.
Mallappa, Prop: Jaihind Hotel, Saidabad Main Rd, Hyd (15,000 L).
Malleshwari PF, 3-4-376/1 Basant Nagar, Hyd 500027 -- V Nirupama.
Malleshwari PF, 18-32/1 Subhashnagar (Dhoodi Vill), Sec -- Yadi Reddy.
Mallika PF, 8-99, Shamshabad, R R Dist -- M Dayananda Reddy (6,000 L).
Mallikarjuna Rao, M, B2 F2 Ameerpet, Housing Board Colony, Hyd 500016; Farm: Gandipet.
Manemma, Smt B, w/o Narayan Reddy, Injapur, Via Saroornagar, Hyd 500035.
Manmohan Reddy PF, Injapur, PO Saroornagar, Hyd 500035 (10,000 L).
Manohar Reddy, G, 9-77 Opp Autonagar, PO Vanastalipuram, Hayatnagar, R R Dist.
Maritjo PF, Injapur Rd, Hayatnagar, Hyd 501550 (3,500 L).
Marri Poultry, Uppal, Hyd 500039(84,000L).
Marri PF, c/o Sridhar Reddy, s/o Dr Chenna Reddy, Tarnaka, Hyd 500007 (18,000 L).
Marthand, Y, s/o Dhan Raju, 3-3-471 Chappal Bazar, Hyd.
Masaiah, Y, Vill Sahebnagar, PO Saroornagar, Hyd 500035 (10,000 L).
Mayuri Poultries, Peddamberpet, PO Hayatnagar, Hyd 500035; Ph: 63728; Mg Partner: V Madhusudhan Reddy (10,000 L).
Medas Poultry Estate, 11-21 M B Mission Compound, PO Shamshabad 509218, R R Dist; Ph: 126; Prop: K Subba Rao (1,000 L, 5,000 B/year).
Meera PF, Balapur, Via Kesavagiri, Hyd -- Dr M Vaman Reddy.
Meeraj PF, Meeraj Cafe, Muradnagar, Hyd 500028 (10,000 L).
Megha Farms, Pheerzadiguda, PO Uppal, Hyd.
Mektab Khan, Dr, 16-4-319 Chanchalguda, Hyd 500024.
Minerva PF, c/o Minerva Press, 4-1-275 Troop Bazar, Hyd; Farm: Bonguloor.
Miraz PF, Kothapet, Hyd West (10,000 L).
Miyapur Poultry Complex (Govt Poultry Unit) Miyapur, Hyd (16,000 L).
Modern PF, Bairamalguda, Saroornagar Post, R R Dist -- Ramesh Kapoor (20,000 L).
Mogul Farms, 14th Milestone, Vill Chilkur, Vikarabad Rd, Moinabad, Chavella Tq, Hyd West; Ph: 56059 -- Babu Khan (16,000 L).
Mohan Reddy, Poodur Vill, Medchal Tq, R R Dist.
Mohan Reddy, B, Torror, Via Hayatnagar, R R Dist (6,500 L).
Mohan Reddy, G, Injapur Vill, Turkayamjal, PO Saroornagar, Hyd 500035 (20,000 L).
Mohan Reddy, K, Vill & PO Balapur, Via Keshogiri, Hyd 500005 (4,000 L).
Mohan Reddy, S, Sahebnagar, Saroornagar, Hyd 500035.
Mohd Ali, c/o Swastik Metal Works, 3-4-284/3 Basant Talkies Rd, Kachiguda,Hyd.
Mohd Basheer, 19-3-530/2/A Misriganj, Opp Sana Bagh, Hyd 500002.
Mohd Khan, Basheer, 16-4-377 Chanchalguda, Hyd; Farm: Tukkuguda (6,000 L).
Mohd Omer, Ramdevguda, Via Gandipet, Ibrahimbagh, Hyd (4,000 L).
Mumtaz PF,Barkas,Bandlaguda,Hyd (10,000 L).
Muthyam Reddy, s/o N Anji Reddy, Rashidguda (Kothaguda), PO Gollapally, Near Shamshabad, R R Dist.
Muzafar Khan, 10-3-68/1 Humayun Nagar, Hyd 500028.
Mysaiah, Y, c/o Annapuran Rice Mill,Malakpet, Hyd 500036; Farm: Seetaiah, 1-20, Hayatnagar, Hyd (11,000 L).
Mythili PF, Chaitanya Kalasala, Badichowki, Sultanbazar, Hyd -- M Venkat Rao (19,000 L).
Naganancharayya, Ch, 16-11-1/4 Saleemnagar Colony, Malakpet, Hyd 500036(20,000 L).
Nagarjuna, M, s/o Jagadeshwaraiah, Shamsha-

bad, Rajendranagar, R R Dist (12,000L).
Nagarjuna PF, c/o Nusrat Mehdi, Injapur, PO Saroornagar, Hyd 500035 (20,000 L).
Nagarjuna PF, Bonglur 501506, Ibrahimpatnam Tq; Ph: 75693 -- R K Soni(40,000L).
Nagmani PF, Champapet, Via Saroornagar, Hyd 500035 (7,000 L).
Nandini PF, 18-2-36/3 Kandikalgate, Hyd 500005; Ph: 49224 -- A Papi Reddy.
Narahari, Jeedimetla, Via Hakimpet, Sec 500014 (16,000 L).
Narasimha Raju, R Appala, Devarayamjal, Sec 500014 (9,000 L).
Narasimha Reddy, B, s/o Nagi Reddy, Sahebnagar, Hyd 500035 (6,000 L).
Narasimha Reddy, M, Pedda Amberpet, Via Hayatnagar, Hyd 501505 (6,000 L).
Narsimha Reddy, Nava Bharat, Turkayamjal Vill, PO Mangalpally, Hyd 501510 (24,000 L).
Narasinga Rao, Shapur, R R Dist (14,000L).
Narayana, A, PF, Pedda Amberpet, Hayatnagar Rd, Hyd 500035 (3,000 L).
Narayana Raju PF, Ramakrishnapuram, Sec 500556 (3,500 L).
Narayana Raju, S, Kompally, Via Hakimpet, Sec 500014 (10,000 B).
Narayana Rao, Narapally, Via Ghatkesar (8,000 L).
Narayana Reddy, Laxmi, Kompally, Via Hakimpet, Sec 500014 (44,500 L).
Narayana Reddy PF, Vill Injapur,PO Saroornagar, Hyd 500035 (3,000 L).
Narayana, S Y, Kuntloor, Hayatnagar, Hyd 501505 (4,500 L).
Narsimha Raju, P V, Shameerpet, Via Bolaram (4,000 B).
Narsingi Poultry Complex (Govt Poultry Unit), Narsingi, Via Gandipet, Hyd 500008 (15,000 L).
Nasiruddin, Turkayamjal, PO Mangalpally, Hyd 501510 (6,500 L).
Navketan PF, Dilsukhnagar, Hyd 500002 -- Venkat Reddy (7,000 L).
Nawbharat Farms, behind Bus Depot, Medchal PO, R R Dist; Ph: 47150; Prop: Kista Reddy (46,000 L).
Neen & Anish PF, 8-2-618/2/1, Banjara Hills, Road No 11, Hyd 500024.
Neknampura Poultry Complex (Govt Poultry Unit), Neknampura, Via Gandipet, Hyd (15,000 L).
New India PF, Yapral Vill, Hyd (6,000 L).
Nilam Poultry, Torrur Rd, Hayatnagar, Hyd 500005; Prop: Charu Chandra (8,000 B)
P Yadaiah PF, Turkayamjal, PO Mangalpally, Hyd 501510 (6,000 L).
P A D Farms, 16-3-68/1 Humayun Nagar, 500028; Ph: 38023 -- Hafeez Khan (16,000 L).
P N PF, Vill Yapral, Bolaram, Sec 500010; Ph: 79052 -- Lt Col P N Singh (retd) (2,000 L).
Padma Grape & PF, Jeedimetla, Via Hakimpet, Sec 500014 (13,000 L).
Padma PF, Near Check Post, Medchal 501401 -- I V Satyanarayana Raju (16,000 L).
Padmaja PF, Kompally, Via Hakimpet, Sec 500014 -- Dr Varma (20,000 L).
Padmanabhan PF, 1-1-698 Gandhinagar, Hyd 500020; Ph: 61815 -- M Venkayya (2,000 L).
Panchavathi PF, Kothaguda, Via Gandipet, Hyd (5,000 L).
Papi Reddy, V, House No 30-147, Deen Dayal Nagar, PO Neredmett, Via Ramakrishnapuram, Hyd 500556; Ph: 79176 (4,000 L).
Paragaon PF, 16-10-27/105/27 Malakpet, Hyd 500036; Ph: 56159 -- Mohd Jaleel Pasha.
Parvathama PF, Kuntloor Rd, Hayatnagar, Hyd 501505 -- M Krishna Rao (8,000 L).
Parvathi PF, Opp Navbharat Feeds, Saidabad Colony, Hyd 500659; Ph: 59025 (6,000 B).
Parvathi PF, Jeedimatla, Medchal Rd, Via Hakimpet, Sec 500011 -- Ramakrishna Raju (5,000 L).
Parvathi Raj, Neknampura, Narsingi, Hyd (4,000 L).
Patel, Jitendra A, 16-1-27 Saidabad, Hyd 500659; Ph: 59025 (5,000 L).
Patnis PF, 8-1-22 Toli Chowki, Via Golconda, Hyd 500008; Ph: 31376 (off), 31724 (resi); Mg Partner: Mohd Hussain Baig (30,000 L).
Penta Reddy, Kallem, Vill Nadergul, Via DMR Labs, Hayatnagar Tq, R R Dist (5,000 L).
Poonam Garden, Survey No 51, Sahebnagar, Hyd East; Ph: 59292.
Prabha Bharan PF, Kuntloor Rd, Hayatnagar, Hyd 501505 (6,000 L).
Prabhakar Rao, G, Vill Turkayamjal, PO Mangalpally 501510;Ph:36 (25,000 L).
Prakash PF, c/o Prakash Paper Merchants, 15-5-104 Afzalgunj, Maharaja Jansi Rd, Hyd (7,000 L).
Prakash PF, Milardupally, R R Dist; Prop: Prakash Reddy (13,000 L).
Prakash Rao PF, Vill Bairamalguda, PO Saroornagar, Hyd (8,000 L).
Prameela PF, Seetarampuram, Hayatnagar, Hyd 501505 -- Gopal Reddy (8,000 L).
Prasad, C B R, Vill Turkayamjal, Nagarjuna Rd, Mangalpally 501510, Hyd; Ph: 66774 (25,000 L).
Prasad Raju, Devarayamjal, Near Hakimpet, Kompally, Hyd (24,000 L).
Prasad Rao, J, c/o J Vengal Rao, Turkayamjal, PO Mangalpalli, Hyd 501510 (10,000 L).

Prasad Rao, Y R, Nagol, PO Saroornagar, Hyd 500035 (15,000 L).
Prasada Rao, Srinivasa, Bairamalguda Vill, Saroornagar PO, Hyd 500035 (12,000 L).
Prasant PF, Vill Chintalkunta, PO Saroornagar, Hyd 500035 (18,000 L).
Prasanti PF, PO Mansurabad, L B Nagar Post, Via Saroornagar, Hyd 500035 -- D Sudhakar (20,000 L).
Pratap Reddy PF, Abdullapermet, Hayatnagar, Hyd 501505 (8,000 L).
Praveen PF, Vill Kistapur, Medchal, Sec 501401 -- Praveen V Raichurai (5,000L).
Premier PF, 3-5-786/37 King Koti, Sheer Gate, Hyd 500001 (15,000 L).
Premier PF, Aushapur, Via Ghatkesar, R R Dist (40,000 L).
Premila Poultry, 221-D Gymkhana Rd, Sec 500003; Ph: 76611 -- Air Cdr K Chand (retd).
Prince PF, c/o Raju & Mahendra, Chartered Accountants, 5-8-512/18 Chirag-ali-Lane, Hyd 500001; Mg Partner: N Saraswathi (12,000 L).
Priya PF, Shadnagar, Chintalkunta, Vijayawada Rd, Saroornagar, Hyd 500035; Prop: K Srinivasa Rao (12,000 L)
Pruthivraj PF, Vill Nekhampura, Via Gandipet, Hyd 500008 (4,000 L).
Quadeer PF, Injapur Vill, Saroornagar Post, Hyd 500035 (6,000 L).
R S Raju PF, Kompally, Medchal Tq, R R Dist -- Appalanarsimha Raju (28,000 L).
Radhakrishnaiah, Y, Kuntloor Rd, Hayatnagar, Hyd 501505 (5,500 L).
Rafi PF, Shamshabad, Hyd (8,000 L).
Rafic PF, Yapral Vill, Via ECIL, Hyd (12,000 L).
Raghupathi PF, Kuntloor Rd, Hayatnagar, Hyd 501505 -- Brahmayya (6,000 L).
Raichura, Parveen V, 9-1-67/A, 33-A Sarojini Devi Rd, Sec 500003 (10,000 L).
Raj Farms, 248 Turkayamjal, PO Mangalapally, Hyd 501510 (10,000 L).
Raj Rajshri Farms, Srinagar, Gandipet, Hyd 500008 (30,000 L).
Raja Reddy, E, Mucherla Vill, Shamshabad, Kalwakurthy Rd, Ibrahimpatnam Tq 501506, R R Dist (20,000 L).
Rajani, Cherukuri Laxmi, w/o Dr Nageshwar Rao, Hayatnagar, R R Dist.
Rajeshwari PF, Jeedimatla, Sec 500011; Ph: 79383 -- B Suryanarayana Raju (10,000 L).
Rajpal Yadav, B, 17-2-109 Chawni Nader Ali Baig, PO Near Yakutpura Rly Stn, Hyd 500023 (15,000 L).
Raju PF, Kompally, PO Hakimpet,Sec 500014; Ph: 79073 -- R S Raju, S N Raju, Appala Raju (41,000 L).
Raju, P R, Turkayamjal, PO Mangalapally 501510, Hyd East (10,000 L).
Raju, Venkat Ram, c/o Venkat Laxmi Satyanarayana PF, Kompally, Sec (23,000 L).
Rajyam PF, Kuntloor, Via Hayatnagar, Hyd 501505 -- Hanumantha Rao (20,000 L).
Ram Reddy, M, Champapet, Hyd (10,000 L).
Ram Raju, K V, "Ayodhya", Via Gundlapochampally, Medchal Ta, R R Dist (10,000 L).
Rama Rao, Dr A, Kaliakal Vill, Medchal Tq (4,000 L).
Ramachandra Reddy, PO Pulimamidi, Via Mankhal, R R Dist (15,000 L).
Ramchandra Reddy, K, 'Poultry Heaven', 3-6-311 Hyderguda, Hyd 500001.
Ramaiah, Principal, Dargah, Hyd West (12,000 L).
Ramakoteswara Rao, Mamella, Hayatnagar, R R Dist (15,000 L).
Ramakrishnam Raju PF, Devarayamjal, Via Hakimpet, Sec 500014 (10,000 L).
Raman Farms, Gagan Pahad, Hyd West; Ph: 61028 -- U N Raju, Ph off:56121,41214.
Ramana Prasad, S V, Peddamberpet, Laxmareddypalem, Via Hayatnagar, Hyd 501505 (5,000 L).
Ramappa, s/o Basavarajappa, Seetarampuram, Hayatnagar, R R Dist (5,000 L).
Ramesh Babu, G, Turkayamjal, PO Mangalpally, Hyd 501510 (14,000 L).
Ramesh Kumar, M, Kuntloor, Via Hayatnagar, Hyd 501505 (5,000 L).
Rami Reddy, M, Torrur, Hayatnagar, Hyd 501505 (8,000 L).
Ramna Reddy, Jahnuma, Hyd (9,000 L).
Ramakrishna Reddy, Balapur, Via Keshavagiri, Hyd 500005 (4,000 L).
Ramulu, G, Balaji Gudem, PO Ananthagiripally, Vikarabad Tq, R R Dist (5,000 L).
Ranga Rao PF, Boduppal, Via Uppal, Hyd 500039 (10,500 L).
Rangamma, Smt, Kothapalli, 3-4-615 Narayanaguda, Hyd 500029 (25,000 L).
Rao & Rao Poultries, 18/3/RT Sanjeeva Reddy Nagar, Hyd 500038 (15,000 L).
Ratna Kumari, Smt P, c/o P L Narasimha Rao, 16-1-27/A Saidabad, Opp SBH Colony, Hyd 500035 (15,000 L).
Ratnam PF, Shadnagar, Chintalkunta, Near Golden Tobacco Co Godown, Vijayawada Rd, Saroornagar, Hyd 500035; Ph: 59248 -- M P Seshaiah (15,000 L).
Ravi PF, Near Sudha Complex, Saroornagar, Hyd 500035; Prop: Ravi (10,000 L).
Reddy, C N, Siri Siri Matha, Via Navkuda, R R Dist (11,000 L).
Reddy, Gajjala Sathi, c/o G Chandra Reddy, 2-45 Kamanghat, Hyd.
Reddy, Kukkala Muthyam, Injapur, Saroor-

nagar, Hyd 500035 (6,000 L).
Reena Poultries, Jeedimatla, Medchal Rd, Sec 500011 (15,000 L)
Reshma PF, Shivarampally, Hyd -- Iqbal (5,000 L).
Revathi PF, 2-8-5 Champapet, Hyd 500036; Ph: 57503; Farm: Karmanghat, Ph: 59062 -- M Janardhana Rao, M Kisan Rao.
Rockland PF, 6-3-249/3 Banjara Hills, Hyd 500034; Ph: 35272 -- Siraj Ahmed Taher (3,000 L, 1,000 B).
Roopa PF, c/o Balaji Foods & Feeds, Turkayamjal, PO Mangalpalli, Hyd 501510 -- R C Chadha.
Roshanlal PF, Turkayamjal, PO Mangalpalli, Hyd 501510 (15,000 L).
Royal PF, c/o Mohd Hussain, 22-1-719 Mahaboob Manjil, Noorkhan Bazar, Hyd 500002; Ph: 48184 (10,000 L).
Royal Grape Garden, PO Bairamalguda, Lingojiguda, Saroornagar, Hyd 500035; Ph: 59202;Prop:K V S Subba Raju (18,000 L).
S V Enterprises, c/o Ram Babu, Bandlaguda, PO Nagole, Via Kothapet, R R Dist.
S V R PF, Yapral, Sec -- Dr Gopala Rao (15,000 L).
Sadanand, K, 17-2-274 Chowni Nader Ali Baig, Upperguda, Hyd 500023 (5,000 L).
Sagar PF, 1-9-312/2 Vidyanagar,Hyd 500044 -- V Gopal Rao (12,000 L).
Sai PF, Balaji Nagar Colony, Gaganpahad, R R Dist (8,000 L).
Sairam PF, Bairamalguda Vill, Via Saroornagar, Hyd -- G Sudershan Reddy (18,000 L).
Sami Reddy, Torrur, Via Hayatnagar, Hyd 501505.
Samisthi PF, Srinagar, Gandipet, Hyd 500008; Ph: 51561; Mg Partner: Satish Reddy (32,000 L).
Samrajyam PF, Kuntloor, Via Hayatnagar, Hyd 501505 -- Laxmi Narasaiah (8,000L).
Sanjeeva PF, Kothaguda, Via Gandipet, Hyd (4,000 L).
Sanjeeva Rao, A, 1-103 (White fields), Kothaguda, Via Gandipet, Hyd (12,000L).
Sanjeeva Reddy, J, Manneguda, Turkayamjal, PO Mangalpalli, Hyd 501510 (10,000 L).
Santosh PF, Kaukoor, Medchal Tq, R R Dist -- Krishna Reddy (19,000 L).
Santoshima PF, Torrur Rd, Hayatnagar, Hyd 500035 -- G Sambasiva Rao (5,000 L).
Saroja PF, 4-105/A Ramanthapuri, Hyd; Prop: Smt N Saroja (6,000 L).
Sarojini PF, 1-43 Bagh-e-Ameer, Kukatpalli, Hyd 500872 (5,000 L).
Sashidhev Reddy, B, PO Pratap Singavam, Via Uppal, R R Dist (2,000 B/week).
Satti Reddy, PO Injapur, Hayatnagar Tq (6,000 L).
Satya Kamal PF, Saidabad Colony, Opp Navbharat Feeds, Hyd 500659; Ph: 59025 (6,000 B).
Satyanarayana Murthy, Opp Vishnu Feeds, Hayatnagar, R R Dist (10,000 L).
Satyanarayana Reddy, M, s/o Veera Reddy, Peddamberpet, Balajiguda Rd, Via Hayatnagar, Hyd (6,000 L).
Seetarama Raju, K, Kompally, Via Hakimpet, Sec 500014 (17,500 L).
Seetaram Reddy, V, Izathnagar, Kothaguda, PO Madapur, Hyd 500032 (10,000 L).
Sekhar PF, 4-28 Chitryapuri, Hyd 500035; Ph: 59201 -- K V Ranga Rao.
Seth PF, 2-59 A, Khapra, Sec 500014; Prop: D P Seth (5,000 L).
Shah Agril Farm, 1-10-72/2, Begumpet, Hyd 500016; Prop: B D Shah (15,000 L).
Shahni PF, c/o Globe Automobiles, 15-1-555 Siddiambar Bazar, Hyd 500012 (20,000 L).
Shahni PF, Bonglur 501506, Ibrahimpatnam Tq; Ph: 50 (Turkayamjal); Mg Partner: Om Prakash Khurana (40,000 L).
Shaik Hussain, Panch Mohalla, 23-1-1078 Near Charminar Bus Depot, Hyd.
Shakuntala PF, Vill Bairamalguda, PO Saroornagar, Hyd 500035 (8,500 L)
Shams PF, Sangiguda, China Golconda, PO Rajendranagar, R R Dist (9,000 L).
Shankar Rao, Canaranagar, Via Uppal, Hyd 500039 (5,000 L).
Shanker Reddy PF, Old Alwal, Sec 500011 (10,000 L).
Sharmili PF, Turkayamjal, PO Mangalpally, Hyd 501510 (4,000 L).
Shaw, B R, Medchal, R R Dist (15,000 L).
Shilpa PF, Srinagar, Gandipet, R R Dist -- Santosh Reddy (10,000 L).
Shiv Charan PF, c/o Prabhucharan PF, Kuntloor Rd, Hayatnagar, Hyd -- R K Prabhucharan (8,000 L).
Shiva PF, Ghatkesar (4,200 L).
Shivane, R S, 16-2-147/D Malakpet, Hyd 500036 (5,000 L).
Shohil PF, 243 'B' Class, 11-3-659, New Mallepally, Hyd 500001 -- Mohd Ismail.
Showal PF, Vill Bandlaguda, Hyd -- Ismail Sait (11,500 L).
Siddik PF, Turkayamjal, PO Mangalpally 501510, Hyd (9,000 L).
Sitaram Reddy, Kothaguda, Gachibowli, Hyd 500032 (10,000 L).
Sitarama Raju, K, Kompally, Via Hakimpet, Hyd (15,000 L).
Siva Prasad, G, Mamella, Via Hayatnagar, Hyd 501505 (8,400 L).
Sivaiah, Canaranagar, Via Uppal, Hyd 500039 (6,000 L).
Sohail PF, Vill Bandlaguda, PO Keshavagiri, Via Chandrayanagutta, Hyd (24,000 L).

Soma Raju, G, Kompally, Medchal Tq, R R Dist (25,000 L).
Sombabu PF, Jeedimatla, Medchal Rd, Sec 500011 -- Sombabu (7,800 L).
Sonali Farms, Road No 7, Banjara Hills, Hyd 500039 -- V R Reddy (75,000 L).
Sonali PF, Navkuda, R R Dist -- Surendra Reddy (10,500 L).
Soni PF, Bonguloor Vill, PO Mangalpalli, Hyd 501510; Prop: R K Soni.
Sree Rama PF, 5-9-22/88 Adarshnagar, Hyd 500483; Ph: 35509; Mg Partner: N R Gupta; Farm: Vill Yenkapally, Hyd West (4,000 L).
Sreenivasa PF, Vill Kompally, PO Hakimpet, Medchal Rd, Hyd 500014; Ph: 79149 -- K Sitarama Raju (5,000 L).
Sreevan PF, New Bldg, Gagan Pahad East, Hyd West; Ph: 48062 -- M Jalaiah Naidu.
Sri Ambika Poultry & Dairy Farm, 18-11-28 Chandrayangutta, Hyd (12,000 L).
Sri Durga PF, Kothapet, Vijayawada Rd, PO Saroornagar, Hyd 500035 -- R Krishna Murthy (20,000 L).
Sri Krishna PF, Behind VMO, Dilsukhnagar, Saroornagar, Hyd 500035; Ph: 59096 -- K Krishna Kumari (4,000 L).
Sri Lakshmi Venkateswara Satyanarayana PF, Petbashirabad, Via Kompally, Medchal Tq, R R Dist -- R Venkatarama Raju (15,000 L).
Sri Laxmi PF, Medchal Tq, R R Dist -- Smt Savitri Varma (40,000 L & B).
Sri Laxmi PF, Mission Compound, Shamshabad 509218, R R Dist -- M Chandra Reddy (8,000 L).
Sri Ram PF, 1-10-124 Ashoknagar, Hyd 500029 -- Jalaiah Naidu (20,000 L).
Sri Rama PF, Bairamalguda, Saroornagar, Hyd 500035; Prop: G Sudershan Reddy (7,000 L).
Sri Sainath PF, House No 1-8-111 Meckleodguda, M G Rd, Sec 500003 (11,000 L).
Sri Santosh PF, Kenkoor, Medchal Tq, R R Dist -- Krishna Reddy (15,000 L).
Sri Satya Annapurna PF, Kompally, Via Hakimpet, Sec 500014 -- Rambabu (5,000 L).
Sri Venkat PF, Gundlapochampally, Via Hakimpet, Sec 500014 -- Venkat, N V R K Raju (27,000 L).
Srikanth PF, Near Rice Mills, Kothapet Vill, Via Saroornagar, Hyd 500035 -- D Chandrasekhar Rao (5,000 L).
Srinivasa Poultry & Agri Farm, B-3-214/7 Srinivasanagar Colony, Hyd 500890 (14,000 L).
Srinivasa Farms, Uppal, Hyd 500039; Ph: 851118, 852291 -- C Jagapati Rao (8,000 L).
Srinivasa PF, Jeedimetla, Hyd 500854 -- I Rajan Raju (10,000 L).
Srinivasa PF, Pedda Amberpet, Hayatnagar, Hyd 500035; Ph: 57807 (7,000 L).
Srinivasa PF, c/o G Ramakrishna Reddy, 34/3 RT, Saidabad Colony, Hyd (10,000L).
Standard Egg Agencies, Khilwat Rd, Near Murgichowk, Hyd 500002 (12,000 L).
Star PF, Champapet, PO Saroornagar, Hyd 500035; Ph: 59332 -- Smt M Mumtaz (21,000 L).
Subba Raju PF, Vill Bairamalguda,PO Saroornagar,Hyd--G Sudarshan Reddy (16,000 L).
Subba Raju, R, Gundlapochampally, Via Hakimpet, Sec 500014 (4,000 L).
Subba Rao, M, c/o Janardhan Rao, Kuntloor, Via Hayatnagar, Hyd 501505 (20,000 L).
Sudershan PF, Kompally, Medchal Tq, R R Dist -- K Sudershan Reddy (15,000 L).
Sudershan Reddy, Seetharampuram, Via Hayatnagar, Hyd 501505 (8,000 L).
Sudha Dairy & PF, 4/9 Narikuda, Shamshabad 509218; Ph: 63 -- Suresh Reddy, Ph: 33398 (25,000 L).
Sudha PF, 5-137 Narsingi, Via Gandipet, Hyd 500008 -- Smt K Sudha Devi (5,000L).
Sultan Mohinuddin, 18-8-451/A6 Kammarvadi Colony, Jyothi Bagh, Edibazar, Hyd.
Sultana,Bilkis, Turkayamjal, PO Mangalpally, Hyd 501510 (14,000 L).
Suman PF, Vill Kompally, PO Hakimpet, Medchal Rd, Hyd 500014; Ph: 79094 -- Baswa Rao (15,000 L).
Sundaram PF, Devaryamjal, PO Kompally, Via Hakimpet, Sec 500014 -- Satyanarayana Raju, Gandi Raju (30,000 L).
Suneel PF, Kuntloor Rd, Hayatnagar, Hyd 501505; Prop: Sharad (5,000 L)
Sunshine PF, Ghatkesar (5,000 L).
Super Delux PF, 1-69 Syed Manzil, Saroornagar, Hyd 500036.
Surapa Raju, Mavilla Complex, PO Hayatnagar (8,000 L).
Surya Farms, Kothaguda, Via Gandipet, Hyd (4,500 L).
Surya Rao, Dr G, Pahadi Mir Mohd Ali, Rajendranagar, Hyd 500030; Ph: 48000 (7,000 L).
Suryanarayana Raju, K, Vill Kompally, Via Hakimpet,Medchal Rd, Sec 500014 (18,000 L).
Swapna PF, Torrur Rd, Hayatnagar, Hyd; Prop: Y Masaiah (22,000 L).
Swarna PF, Turkayamjal, Mangalpally 501510; Prop: Smt A Kamala Seshu (6,500 L).
Tilak Raj, Capt, 12/80 Ajwal, Hyd 500010; Ph: 79296; Farm: Yapral (9,000L,5,000B).
Tirumala PF, Bonguluru, PO Mangalpally, Hyd 501510 -- P N Goud (12,000 L).
Tirumala PF, Jeedimetla, Via Hakimpet, Sec 500014 -- Muralidhar (4,000 L).

Tirumala PF, Devara Yamjal, Via Hakimpet, Sec 500014 -- Yadi Reddy (10,500 L).
Tirumala PF, Pedda Amberpet, Hayatnagar, Hyd; Ph: 59341 (4,000 L).
Triveni PF, Injapur, Saroornagar, Hyd 500035 -- B L Manmohan Reddy.
United PF, Vill Injapur, PO Saroornagar, Hyd 500035; Prop: Nusrat Mehdi (8,000 L).
Urmila PF, Hayatnagar, Hyd 500035 -- L Venkat Reddy (5,000 L).
Usha & Co (Farms), G-1-227 Dargah Hussein Sha Wali, Hyd 500008; Ph: 31389, 33174 (resi); Partners: Dr G Ramakoteswara Rao & Smt V Chinnaji (20,000 L).
Usha PF, 8-1-330 Durga Rd, Tolichowki, Via Golconda, Hyd 500008; Ph: 31319 -- Dr Ramprasad (4,000 L).
Vaikuntham PF, Pedda Amberpet, Via Hayatnagar, Hyd 501505 -- C S Rao (9,000 L).
Vani PF, Kompally, PO Hakimpet, Sec 500014; Prop: Subba Raju (12,000 L).
Vanisree PF, Behind Nehru Polytechnic Coll, Hyd 500013; Ph: 71333 -- J K Rao.
Vansumathi PF, Mamella, Via Hayatnagar, Hyd East (5,000 L).
Varalaxmi PF, Gandipet, Hyd -- Prasad (40,000 L).
Vasudeva Reddy, V, Poultry Complex, House No 13-27 Shadnagar 509216 (2,000 L).
Vasundara PF, Vill Anamagal, Via Hayatnagar, Hyd -- Sari Babu (10,000 L).
Veena PF, Turkayamjal, Mangalpally PO, Hyd 501510 (6,000 L).
Venkat PF, Gundla Pochampally, Medchal Tq 501401, R R Dist -- N V R K Raju (18,000 L).
Venkat Reddy, B, Injapur Vill, Saroornagar PO, Hyd 500035 (4,000 L).
Venkata Ramana PF, Shamshabad, Hyd, R R Dist -- Uma Maheshwara Rao (10,500 L).
Venkatarama PF, 6-1-191/1 Walker Town, Sec 500025; Ph: 61686 -- Dr B Gopala Rao.
Venkataramana, Kaliakal, Medchal Tq (5,000 L).
Venkataramana PF, Cherlapally Vill, Via Ghatkesar, R R Dist (13,500 L).
Venkataratnamma, c/o Tataiah, Seetarampuram, Via Hayatnagar, Hyd 501505 (4,000 L).
Venkateswara PF, Yapral, Hyd (20,000 L).
Venkateswara PF, Gundla Pochampally, Sec 500014 -- N V R K Raju (16,000 L).
Venkateshwara PF, Jeedimatla, Via Hakimpet, Hyd 500854; Ph: 79279 -- I Rajam Raju (10,000 L).
Venkateshwara PF, c/o Dr Ramakoteshwara Rao, Durga Ram Bagh, Hyd 500005 -- A Ganga Raju.
Venkateshwara PF, Vill Manneguda, Near Turkayamjal, R R Dist (18,000 L).
Venkateshwara Rao, G, PO Boduppal, Via Uppal, R R Dist (4,000 L).
Venkatrama PF, Jeedimetla, Medchal Rd, Hyd 500854; Ph: 79015 -- J Ramchandra Rao (10,000 L).
Vensimal's Golden Farm, 'Eldee Villa', 681/B/2, Road No 12, Banjara Hills, Hyd 500034; Sr Partner: Dharam Dassji (25,000 L & 10,000 B).
Vidya Poultry Agri Farm, Survey No 190, Jeedimatla, Hyd 500854; Ph: 79226 -- Dr V Satyanarayan Rao, Ph: 72028 (10,000 L).
Vidyavathi PF, 2 RT/54, Bhadurpura Colony, Hyd 500002; Ph: 46720 -- Dr T Bhoja Reddy (11,000 L).
Vijaya PF, Medchal, R R Dist -- Jaganmohan (15,000 L).
Vijaya Manvi PF, CIB-40 Lingampally, Hyd 500027 (4,000 L).
Vijaya Raju, P, Hydernagar, BHEL Rd, Via Kukatpally, Sec (4,000 B).
Vijayakrishna PF, Pedda Amberpet, R R Dist (10,000 L).
Vijayalakshmi PF, Yellampet, Main Rd, Attivelli PO, Medchal Tq, R R Dist -- Bangar Raju.
Vijetha PF, Mansurabad, Saroornagar, Hyd 500035; Ph: 59364 -- L Gopal Reddy (10,000 L).
Vikas PF, 32-1/1 Moulali, Hyd -- G Soma Raju (10,000 L).
Vikram PF, Vill Nagaram, Hyd (15,000 L).
Vinay PF, 3-5-1119/3 Kachiguda X Rd, Hyd 500027 -- V Indrasena Reddy.
Vishnu PF, House No 9-50 Hayatnagar, Near Siri Feeds, Hyd 501505 (8,000 L).
Y V Farms, Vill Malkaram, Near Shamshabad, R R Dist (20,000 L).
Yadagiri Rao, M, s/o Balakrishnaiah, 18-4-256, Out Side Aliabad, Hyd 500002 (8,000 L).
Yadagiri Reddy, Nagol, R R Dist (10,000 L).
Yadava Reddy, M, Champapet Vill, PO Mangalpally, Hyd 500035 (6,000 L).
Yadi Reddy, S, c/o Srinivasa Reddy, Koheda, Via Hayatnagar, Hyd 501505 (6,000 L).
Zaina Grape & PF, Hameegullahnagar, Shamshabad, R R Dist (80,000 L).
Zameel, Ahmed Bin, 18-3-256 Errakunta, Near CRP, Chandrayanagutta, PO Keshavagiri, Hyd 500005 (4,000 L).
Zodiac Poultry Agencies, Mamilla, Torrur Rd, Hayatnagar, Hyd 501505; Prop: S Anantha Reddy (4,500 L).
Zulakha PF, Hameedullanagar, Via Shameshabad, Hyd (4,500 L).
Zurustha PF, Srinagar, Gandipet, Hyd (12,000 L).

KARIMNAGAR (Pin: 505---)

Balaswamy, Alganoor (5,000 L).
Gattududdenapalli Coop Society Ltd, Gattududdenapalli, Karimnagar Tq -- Venkata Reddy (15,000 L).
Gopi PF, Ramnagar, Karimnagar -001 -- G Narayana Rao (10,000 L).
Kamalakar Rao, Boyanpalli, Karimnagar Tq (5,000 L).
Mulkanoor Coop Society Ltd, Mulkanoor, Huzurabad Tq -- Viswanath Reddy (5,000 L).
Nagaraju Ramaiah, Bhamakal (8,000 L).
Poultry Industrial Workers & Egg Producers Marketing Society Ltd, Prakash Nagar, Chinta-Kunta -208 -- M Satya Narayana.
Prakash PF, Karshaka Poultry Complex, Karimnagar -- Satyanarayana (8,000 L).
Prakash PF, 7-2-4/F Mankammathota, Karimnagar -002; Ph: 2952, 2633 (resi) -- Smt M Vijayalaxmi (4,000 L).
Sree Rama PF, 6/3/56/57 Karkhanapadda, Bommakal Rd, Karimnagar -001; Ph: 385 -- R Kondaiah (17,000 L).
Sri Rama PF, Vill Rangampalli -174, Peddapalli Tq; Ph: 246 (PP); Prop: G Bal Reddy (6,000 L).
Sri Venkateswara PF, PO Bohempalli 504524; Ph: 21 -- Venkateswar Rao (3,000 L).
Srinivasa PF, Subash Rd, Karimnagar -- Jagapati Rao (15,000 L).
Veeresham & Bhoomi Reddy,Bhamakal(6,000 L).
Venkateshwara PF, Jublinagar, Karimnagar -001 (3,000 L).

KHAMMAM (Pin: 507---)

Bhasker Rao PF,Ravinuthala,Madhira Tq-203.
Mohan Rao, B J, s/o Venkataraman, Vill Mangur.
Raju, Ellandu Rd, Khammam (5,000 L).
Ramachandra PF, Opp Industrial Area, Vellandu Rd, Khammam (10,000 L).
Subramanyam, K, Ellandu Rd, Khammam (5,500 L).
Venkateswara Rao, B, Ellandu Rd, Khammam (5,000 L).
Venuprasad, B, s/o Radhakrishna Murthy, Vill Mangur.

KRISHNA (Pin: 521---)

Anjaneyulu, V S R,Vakkalagadda PO,Divi Tq.
Anupama Egg Farms, Jupudi, Via Juzzuru -181, Vijayawada Tq; Ph: 34 (Via Malapadi) -- Dr M Vijayakumar (30,000 L).
Anusuya PF, Zami Golvepalli -322, Gudivada Tq; Prop: S Hanumantha Rao (15,000 L)
Babu Rao, K, Hanuman Junction-105(2,500L).
Balaji Egg Traders, Gudivada; Mg Partner: V V R Prasada Rao.
Balaji Farms, Balaji Bhawan, Labbipet, Vijayawada 520010; Ph: 72484 -- A Nageswara Rao (2,000 L).
Balaji PF, Patamata, Vijayawada 520006.
Balaji PF, Vakkalagadda PO, Divi Tq.
Balaji PF, Serinarasannapalem, Near Hanuman Junction -105 (2,000 L).
Balaramaiah, A, Gudlavalleru PO -356, Gudivada Tq; Ph: 209 (Gudivada).
Basava Purna, M, Addada, Gudivada Tq (1,500 L).
Benarji, Nutakki, Mandapadu, Gudivada -301; Ph: 2061.
Bhujanga Rao, U, Pamarru PO -157; Ph: 284 (Gudivada).
Brahmam, V Sitarama, Pres, Panchayat Samiti, Gudlavalleru -356.
Ch Prasunamba PF, 7/48, Gudlavalleru -356; Ph: 62 -- V V R Seshadry.
Chandra Mohan, V, Chowtapalli, Gudivada Tq (2,000 L).
Chandra Sekhar, Majjeru, Via Lakshmipuram -129 (3,000 L, 5,000 B).
Chandrasekhara Reddy, G, Pedda Vogirala (4,000 L).
Gandhi, V M M, Perikeedu Bridge, Near Hanuman Junction -105 (3,000 L).
Gopala Rao, Pedda Raju, PO Zami Golvepalli -322, Gudivada Tq; Ph: 816-32 (6,000 L)
Hanumantha Rao, S, Garikaparru PO, Vuyyuru Tq.
Hari Prasad, K, Gundala, Vijayawada 520005 (2,000 L).
Jaganmohan Rao, Y, Prasadampadu (3,000 L).
Jyothi PF, 10th Ward, Nagayalanka -120 -- M V Narsimha Rao.
Kaleshwari, P G, Jupudi (7,500 L).
Kanchana Rao, Malempati, Kammunist Bazaar, Challapalli PO -126, Divi Tq.
Keethineedi PF, Bapulapadu, PO Hanuman Junction -105; Ph off: 58, farm: 8, resi: 148; Mg Partner: K Lakshminarayana (Babu Rao) (24,000 L).
Kishore, U V, PO Guraza, Via Mudinepalli -321, Gudivada Tq.
Kosaraju Poultries, Kurumaddali, PO Pamarru -157; Ph: 356 (PP); Prop: K Koteswara Rao (7,000 L).
Koteswara Rao, V Naga, Edupugallu PO -144, Vijayawada Tq (3,500 L).
Krishna Reddy, G, Nunna -212, Vijayawada Tq (2,000 L).
Kutumba Rao, V K, Gudlavalleru PO -356, Gudivada Tq; Ph: 275 (Gudivada).
Lakshmayya, J, Jaggayyapeta -175 (2,000 L)
Lakshmi Poultries, Christurajpuram, Vijayawada 520008 -- K Satya Prasad(3,000 L)
Lalitha PF, Krishnanagar, Patamata, Vijayawada 520006 -- Ch Subbarao.

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Lavanya PF, Nunna -212 (4,000 L).
Laxmi PF, Pooranki -137 (3,000 L).
Madhavaiah, K, Gopalapuram PO,Tiruvur Tq.
Mohan Rao, A S Ram, Dondapadu PO,Gudivada Tq; Ph: 38 (Gudivada).
Mukherji, K, 2nd Ward, D No 155, PO Gudivada -301.
N S R PF, PO Zami Golvepalli -322,Pamarru Tq; Ph: 32; Prop: N S R Anjeneya Chowdary (8,000 L).
Nageswara Rao,Y,Poranki PO,Vijayawada Tq.
Narayana, Ch Yagna, Pedapulipaka Rd, Krishnanagar, Patamata, Vijayawada 520006.
Narayana Rao, Yerneni, Guraja PO, Gudivada Tq; Ph: 261 (Gudivada).
Narendra Babu, D, Nimmakuru PO, Pamarru Tq; Ph: 34 (3,000 L).
Pratap Poultry, Enikepadu, Ramavarappadu -108; Ph: 43 -- Y Krishnamurthy.
Prema Kumar, K, Penamakuru, Vuyyuru Tq.
Radha Krishnaiah, K, Edupugallu PO -144, Vijayawada Tq; Ph: 89 (5,000 L).
Raj Farms, Tikkli Rd, Labbipet, Vijayawada 520010; Ph: 61064--G K Mangaraj (2,000 L).
Raja PF, Hanuman Junction -105 -- C Venkateswara Rao.
Rajeswara Rao, Polavarapu, Gudlavalleru PO -356, Gudivada Tq; Ph:219(Gudivada).
Rama Raju, U V S, Hanuman Junction -105 (2,000 L).
Ramakotaiah, B, Tallamudi, Near Hanuman Junction -105 (2,000 L).
Ramakrishna Poultry, Kanuru, Vijayawada 520006 (3,000 L).
Ramaseetha PF, Lakshmi Mahal, PO Gudivada -301 -- A Ramaseeta.
Ramchandra Rao,P,Bhavanipuram,Vijayawada.
Rami Reddi, P, 11th Ward, L M B St, Gudivada -301.
Rao, V B K V, PO Kavutaram -331 (3,000 L).
Ratnam,V V,PO Gudlavalleru -356 (3,000 L).
Ravi Kumar PF, Zami Golvepalli -- K Ravi Kumar (6,000 L).
Ravindra Babu, K, K V Kandrika PO, Vijayawada Tq.
S P G Egg Farms, Gudlavalleru PO -356, Gudivada Tq; Prop: Smt Shakuntala (8,000 L)
S V S Poultry, Gundala, Vijayawada 520005 (2,000 L).
Sambasiva PF, Zami Golvepalli -322, Gudivada Tq; Ph: 37; Prop: P Sambasiva Rao (6,000 L).
Sambasiva Rao, Ch, Patamata, Vijayawada 520006 (3,000 L).
Sankar Rao, N B K, Gandigunta (3,000 L).
Sankar's PF, Kadali -- T B S Rao (1,500L).
Sashirekha Enterprise, Enikepadu, Ramavarappadu -108 (3,300 L).
Sasi Rekha PF, Enikepadu, Ramavarapadu, Vijayawada -108 -- V Srinivasa Rao (6,000 L).
Seetarama Swamy, Dr R, Pamarru PO -157; Ph: 231 (Gudivada).
Seshagiri Rao, M, Nunna -212 (2,600 L).
Shivaji PF, Gudlavalleru -356 -- V Shivaji Rao (5,000 L).
Sitaram PF, Vill Mandapady, Gudivada -301 -- Nuttaki Benerji.
Siva Rama Krishnaiah, Ghanta, Vakkalagadda PO, Divi Tq.
Sivaji Rao, V, Gudlavalleru PO -356, Gudivada Tq; Ph: 225 (Gudivada).
Sree Balasubrahmanya PF, PO Mopidevi -125; Ph: 32 (farm) -- K P Chandra Rao (20,000 L).
Sree Ram PF, PO Vakkalagadda, Via Challapalli -126 -- V Seetha Ramanjaneyulu (2,000 L).
Sree Seetha Rama PF, Mandapadu, PO Gudivada -301 -- N Venkateswar Rao.
Sreenivasa Poultry Complex, A G K Rd, Gudivada -301; Ph: 377; Mg Partner: Ramakrishna M.
Srinivasa PF, Gudlavalleru -356 -- P Satyaparayana (10,000 L).
Srinivasa PF, Raghu Gardens, Patamata, Vijayawada 520006 -- S Rama Rao (3,000 L).
Sri Lakshmi PF, Pedaoutapalli PO, Gannavaram Tq.
Sri Rama Krishna PF, Perikeedu Bridge, Near Hanuman Junction -105 (10,000 L).
Sri Venkateshwara PF, Mogalrajapuram, Vijayawada 520010; Ph: 77185 -- K Madhava Rao (6,000 L).
Subba Rao, E, Pratap Industries, Enikepadu, Ramavarappadu -108; Ph: 34, 77.
Subba Rao, S V, Prasadampadu (2,500 L).
Subba Rao, V B K V, Kowtharam PO, Gudivada Tq; Ph: 323 (Gudivada).
Subba Rao, V V, Kummamuru PO, Vuyyuru Tq.
Suresh, P, Gopavanipalem PO, Vuyyuru Tq.
Suryanarayana, Movva, Thippanagunta PO, Gannavaram Tq; Ph: 41 (Arugolanu).
Uma Devi, U, Patamata, Vijayawada 520006 (4,000 L).
Veekay PF, PO Gudlavalleru -356 -- V J Kutumba Rao.
Venkat Rao, Ch, Hanuman Junction -105 (2,600 L).
Venkat Reddy, G, Peddavogiral (2,000 L).
Venkatarama Poultries, M R Rd, Labbipet, Vijayawada 520010; Ph: 61691, 73410 -- P Venkataratnam (1,000 L).
Venkateshwara Rao, K, Atkuru PO, Gannavaram Tq (2,000 L).
Venkateswara Rao, Mulpuri, Ramanagaram,

Challapalli PO -126, Divi Tq.
Venkateswara Rao, Parchuri, Chitturpu PO, Via Kodali, Divi Tq.
Venkateswara Rao, Dr R, Ramanagaram, Challapalli PO -126, Divi Tq; Ph: 146.
Venkateswara Rao, G, Vakamara (2,000 L).
Venkateswara PF, 16/149 Sarath Talkies Rd, Gudivada -301; Ph: 676 -- N Banerji (5,000 L).
Venugopala PF, Venukur (2,200 L).
Vidya PF, Enikepadu, Ramavarappadu -108; Ph: 47 -- Jagannath (7,000 L)
Vijay Egg Farms, Ibrahimpatnam PO, Vijayawada Tq (3,400 L).
Vijaya Kumar, K, Gosala (5,000 L).
Vijayalakshmi PF, Kethana Konda PO, Mylavaram Tq; Ph: 46 (Via Malapadu); Rajeshwara Rao (10,000 L).

KURNOOL (Pin: 518---)

Alaph Khan,Nawab Bungalow,Kurnool(10,000L).
Bollaravaram Poultry Estate, Bollaravaram (10,500 L).
Chandersekhar Reddy, K, Near A P Carbides, Dinnedevarapadu (4,000 L).
Devender Reddy PF, Kurnool (4,000 L).
Gopi Chand PF, Kurnool (4,000 L).
Guravaiah, G, Near A P Carbides, Dinnidevarapadu, Kurnool (4,000 L).
Hanumaaiah, M, Dinnedevarapadu, Kurnool (4,000 L).
Laxmi PF, Soganur Rd, Yemmiganur -360; Prop: G Eranna (1,000 L, 100 B/week).
Madhira PF, Madhira 507203 (10,000 L).
Mallaiah, B, c/o G Gurvaraiah, Near A P Carbides, Dinnedevarapadu (4,000 L).
Panyam Poultry Complex, Nandyal (28,000L).
Raghavarao, A, Near A P Carbides, Dinnedevarapadu (4,000 L).
Raghavendra PF, c/o Tourist Lodge, Adoni -301; Ph: 705.
Rami Reddy, P, Karivipadu (2,000 L).
Reddy, G K, Near A P Carbides, Dinnedevarapadu (10,000 L).
Satyanarayana, K, Ravi Prakash Hotel, Kurnool -001.
Sitarami Reddy, Dr, Near A P Carbides, Dinnedevarapadu (8,000 L).
Surendranath, B, Srinagar, Kurnool -001.
Venkata Rami Reddy, Konkal (2,000 L).
Venkatasubbamma, Smt D, w/o Dr Maddiloti Reddy, Narasingaraopet, Kurnool (4,000 L).
Yemmiganur PF, Yemmiganur 518360(10,000 L).

MAHABUBNAGAR (Pin: 509---)

Anjamma, Smt K, Chetanpally, Shadnagar Tq (2,000 L).
Anjamma, Smt T, Shadnagar (15,000 L).
Arvind PF, c/o T Basava Punnaiah, Shanthinagar -126; Ph: 25 -- K Arvind Reddy.
Bal Reddy, B, Fatimapur, Shadnagar Tq (3,000 L).
Basavapunnaiah, Shantinagar, PO Waddepally Alampur Tq (11,000 L).
Bhavani PF, c/o K Rama Reddy, Shankarpur, Shamshabad -218, Hyd East (12,500 L).
Bhoopal Reddy, L, Vill Padkal, Kalwakurthy Tq (1,500 L).
Brahmachary, A, c/o T Krishna Murthy, Kadthal Kalwakurthy Tq (3,000 L).
Butcha Reddy, s/o Nagi Reddy, Polkipadu Vill, Nagarkurnool Tq (4,500 L).
Butchi Reddy, C, s/o Narayana Reddy, Chinna Chintakunta PO, Alampur Tq (6,000 L).
Butchi Reddy, c/o Madhusudan Reddy, Kalwakurthy PO (4,000 L).
Chalapathi Rao, M, Kothapally PO, Achampet Tq (4,000 L).
Chandrasekar PF, Jadcherla -301; Ph: 161 --Sukhad Devi (5,000 L).
Chettanpally Poultry Complex, Chettanpally Shadnagar Tq -- Satyanarayana, Smt Ravamma, Smt Akkamma (4,000 L each).
Chinnapa Reddy, U, Velugonda Colony, Via Bijinepally, Nagarkurnool Tq (6,000 L)
Damodar PF, Kothapally PO, Achampet Tq.
Damodar Reddy, M, Raikal, Shadnagar Tq (3,000 L).
Damodar Reddy PF, Toodkurthy, Nagar Kurnool -209 (5,000 L).
Dhanlakshmi PF, Chetanpally, Shadnagar Tq (3,000 L).
Dhirender Reddy, Budharam (5,000 L).
Fareed PF, Veerannapet (5,000 L).
Gopal Reddy, T, PO Raviched, Kalwakurthy (2,500 L).
Gopala Krishna Murthy, V, Shanthinagar -126; Ph: 26 (2,500 L).
Gouse Mohd, c/o M Mallappa, Kadthal Vill, Kalwakurthy Tq (2,000 L).
Govardhan Reddy, M, c/o D J Samuel, Shadnagar (3,000 L).
Hanumantha Reddy, K, PO Khanapur, Via Palem -215; Ph: 34 (1,000 L).
Harinarayana, M, Chetanpally, Shadnagar (1,800 L).
Hingora PF, Kavanampet, Hyderabad Rd, Jadcherla Tq -- Mohd Ahmed (9,000 L).
Janardhan Reddy, Chegunta, Jadcherla Tq (4,000 L).
Jangi Reddy, Boppally PO, Via Allair, Nagarkurnool Tq (7,000 L).
K B PF, Dharmapur Rd, Mahabubnagar(4,500
Kavitha PF, Palem -215, Nagarkurnool Tq -- Chinna Hanumanth Rao (7,000 L).
Khadeer PF, Veerannapet (5,000 L).

Kista Reddy, B, Shasadgutta, Nimmalakunta, Mahabubnagar (2,000 L).
Kista Reddy, Chenna, Kadthal -359, Shadnagar Tq; Ph: 23 (4,000 L).
Kista Reddy, K, Hanumaspally, Kadthal, Kalwakurthy Tq (2,000 L).
Konda Reddy, Fertilizer Merchant, Market Rd, Mahabubnagar (5,000 L).
Krishna PF, Thonda Palli, PO Shamshabad -218; Ph: 30 -- Y Krishna.
Krishna Murthy, T, Kadthal, Kalwakurty Tq -358 (15,000 L).
Krishna Reddy, S, Vill Mallapur, PO Kothal, Via Midgil (9,000 L).
Laxmaiah PF, Kadthal -358; Ph: 41 -- Sri Ramulu Gangi.
Laxmi Grape Gardens & Farms, Golapally Rd, Shamshabad -218; Ph: 70 -- K Radhakrishna Babu (10,000 L).
Mallappa PF, Kadthal -358, Kalwakurty Tq; Ph: 29 (4,000 L).
Manohar Reddy PF, Vill Polkonda, Bhootpur Rd, Mahabubnagar (4,500 L).
Nageswara Rao, Bandla, 12-99 Venkateswara Colony, Shadnagar (2,000 L).
Naidumma, Smt, PO Chettanpally, Shadnagar Tq (2,000 L).
Narahari Reddy, c/o Madhusudan Reddy, Padkal, Kalwakurty Tq (3,000 L).
Pedda Hanumahthug,K, Palem, Nagarkurnool Tq (5,000 L).
Pullaiah Choudary, Y, Chettanpally PO, Shadnagar Tq (2,000 L).
Rajender Reddy, B, Annaram, Via Shadnagar (5,000 L).
Rajender Reddy, V, Vani Book Centre, Mahabubnagar (4,000 L).

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Sri Venkateshwara PF, c/o Sri Venkateswara Devasthanam, PO Palem -215; Ph: 24 (farm); 21 (off), 23 (resi) -- T Subramanyam & T Rameshwar (25,000 L).
Uday Farms, Khanapur, Via Palem -215, Nagarkurnool Tq; Prop: V K Uday Reddy (30,000 L).
Vasundara, Smt, c/o Anand Rao, PO Chettanpally, Shadnagar Tq (3,000 L).
Venkatraj Reddy, Hanmaspally Vill, Shadnagar Tq (5,000 L).
Venkatramaiah, T, Shantinagar -126; Ph: 38
Venkateshwara PF, Shamshabad -218 -- Yadagiri Rao (5,000 L).
Zarina PF, Shankarapally Rd, Shamshabad -218 -- Iqbal (20,000 L).

MEDAK (Pin: 502---)

Deccan PF, Patancheru Vill -- Dr Harinath (21,000 L).
Govinda Reddy, V, Vill Kallakal, Gajwel Tq
Kakatiya PF, Patancheru Vill -- Y Bhagirathi (16,000 L).

NALGONDA (Pin: 508---)

Abhyudaya Poultry Farmers Society, Bhongir -116 (5,000 L).
Appa Rao, V, Nareducherla, Huzurnagar -204 (3,000 L).
Chandra Poultry Complex, Kodada -- Bharat Reddy (10,000 L).
Gopal Krishnaiah, D, Nereducherla, Huzurnagar Tq (5,000 L).
Jagannatha Rao, Teacher, Kodada (5,000 L).
Jani Reddy, D, Nereducherla (2,400 L).
Jooloor Farms, Vill & PO Joclocr, Bhongir Tq -- Narasimha Reddy (12,000 L).
Krishna Rao, M, Nereducherla (3,000 L).
Lakshmana Rao, D, Palakeedu, Huzurnagar Tq (6,000 L).
Narsi Reddy, H F, Jooloor, Peddaguda, Bhongir Tq (20,000 L).
Purnachandra Rao, M, Nereducherla, Huzurnagar -204 (5,000 L).
Raghuram PF, c/o Tirumalaiah, Chityal (6,000 L).
Ramulu, PO & Vill Jooloor,Bhongir(16,000 L).
Ranga Rao, A, Nereducherla (4,000 L).
Rangaiah, Jooloor (20,000 L).
Rani PF, Balaji Nagar, Kodad -208; Ph: 116; Prop: N Thirupathaiah (8,000 L).
Ravi Poultry-cum-Dairy Farm, PO Chinna Kandukur, Via Vengapally, Bhongir Tq -- G Narender Reddy.
Satyanarayana Reddy PF,Nereducherla(4,000L).
Venkateswar Rao, V, Nereducherla (1,000 B).

NELLORE (Pin: 524---)

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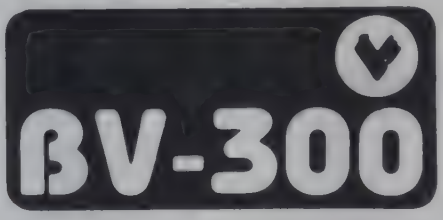
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Brahmaiah, Peddacherukuru, PO Allipuram, Nellore (3,000 L).
Brahmaiah, Kondayapalam, Palem, Nellore (3,000 B).
Chandrasekhar Reddy, Dr P, VAS, c/o Poultry Marketing Centre, Veterinary Hospital, Vill Rebala, Kovur -137(7,500L).
Chenchu Subbarayudu Chetty, A, Navalak Gardens, Nellore -002 (7,000 L).
Chowdhary, M G K, South Amalur (5,000 L).
Damodaran, G, Saluchintala, Kovur(3,000L).
Jaya PF, A K Nagar, Netaji Nagar, Nellore -004; Ph: 1780 -- M Parameswari, M R Prasad (15,000 L).
Jayaram, Dr B, South Amalur, Nellore (10,000 L).
Kesavaiah, V, Gandhinagar, Nellore -005; Ph: 837 (6,000 L).
Kesavaiah, V, Padugupadu, Kovur Tq; Ph: 37 (6,000 L).
Koteswara Rao, M, Cheveeru, Kavali Tq (3,000 L).
Lakshmi PF, Gandhinagar, Nellore -005 -- V Kesavaiah; Ph: 837 (15,000 L).
Malkondaiah, A, South Amalur (3,000 L).
Mohan Rao, Peddacherukuru, PO Allipuram, Nellore (3,000 L).
Narsimha Reddy, K, Navlak Gardens, Nellore -002 (3,000 L).
Nellore District Poultry Breeders Association, 8/18 A, Katta Rd, Nellore -001; Ph: 1790.
Nirmala Konda Reddy PF, Navalak Gardens, Nellore -002 (4,000 L).
Pedavengaiah, P, Chettigunta Rd, Nellore (2,000 L).
Prabhakara Reddy, V, Patur, Kovur -137 (4,000 L).
Prakash PF, Peddacherukum, Nellore -- Sreenivasulu (8,000 L).
Prasad Choudary, R D, PO Eduru, Nellore (20,000 L).
Ramana Reddy, D, Idur (2,000 L).
Ramanaiah, C L V, Kothapalli, Kavali Tq.
Ravibabu, R, Eduru, Nellore Tq (4,000 L).
Saibaba Reddy, D, Allur -315 (2,000 L).
Sailaja, Smt A, South Rajupalem, Nellore; Ph: 315 (5,000 L).
Sambasiva Rao, N, Gudipallipadu, Tal Indukurpet; Ph: 32 (4,500 L).
Sankara Rao, Dr, Peddacherukur, Indukurpet, PO Allipuram, Nellore (7,000 L).
Soundaraya, Smt K, w/o Dr K V Reddy, 25/1069 Netaji Nagar, Nellore -004; Ph: 636 (3,000 L).
Sreenivasulu Reddy, A, Kapu St, Kovur -137 (5,000 L).
Subba Naidu, R, South Amulur, Nellore Tq (3,000 L).
Subba Reddy, N, Idur, Nellore Tq (3,000 L).
Subramanyam, A, Navlok Garden, Nellore-002; Ph: 1802.
Sunder Ram Reddy, R, Idur; Ph: 50 (4,000L).
Thirupal, I, Mangaldaruva, PO Chintepu (2,500 L).
Vaidehi, M G, Balaji Nagar, Nellore -002; Ph: 1588 (3,000 L).
Venkata Subbaiah, S, Kisan Nagar, Nellore -002 (4,000 L).
Vijayarami Reddy, Dr, Kapu St, Kovur -137 (5,000 L).

NIZAMABAD (Pin: 503---)

Anjaiah & Sons PF, Kamareddy -111.
Jaleel, A A, Mubarakh Nagar, Nizamabad-001.
Kisan PF, c/o Ajanta Cool Drinks, 7-6-199 Devi Rd, Nizamabad -001; Ph: 273.
Koteswara Rao PF, Andhra Nagar, Nizamabad.
Venkateswara Rao PF, Mubaraknagar, Nizamabad -001 (3,000 L).

PRAKASAM (Pin: 523---)

Adinarayana Reddy, K, Ongole, Ethamukkala -280 (2,000 L).
Kanthaiah, P L, Sitarampuram, Maddipadu -211 (1,500 L).
Nalini PF, 14/46 Main Rd, Jandra Peta, Chirala -155; Ph: 247 -- V Anjaneyulu Chowdary (3,000 L).
Prabhakara Rao,K,Koppulu,Ongole(1,000 L).
Ratnam, K, Mamidipalem, Ongole-001(2,000L).
Sharad PF, Sitarampuram, Maddipadu -211, Ongole Tq (9,000 L)
Sree Rama Murthy, M, Santharavuru PO.
Sreenivasa Poultry Lands, Seetharampuram, Maddipadu -211, Ongole Tq -- P Lakshmi Kanthaiah (2,000 L).

SRIKAKULAM (Pin: 532---)

Balaram Poultries, Purushottapuram -190, Via Vepagunte.
Rock House Farm, 25/4 Milestone, Parvathipuram-Palkonda Rd, PO Parvathipuram-501 -- Smt Daya Thotraj.
Small Farmers Development Agency, Srikakulam -001; Ph: 291.
Sri Venkateshwara PF, G T Rd, Narasannapeta -421 -- Dr B C Appa Rao.

VISAKHAPATNAM (Pin: 530---)

Appalanaidu PF, Pedanayudupalem, PO Sabbavaram, Anakapalli 531001 (2,000 L).
Balaram Poultries, Vepagunta PO, Via Pendurti; Ph: 51 (10,000 L).
Brite PF, Chodavaram 531036; Ph: 41; Prop:

P Sree Rama Murthy (30,000 L).
Coastal Hatcheries, Aganampudi, Anakapalli Tq, Visakhapatnam -026; Ph: 21; Mg Partner: Dr V Chencha Rao; Ph: 6373 (resi) (20,000 L).
East Coast Farms, Madhuravada Vill, Visakhapatnam -019; Ph: 9121; Mgr: U Tatavvayi (4,000 B).
Krishna Poultries & Dairy Farm, Hanumantawaka, Visakhapatnam -010; Ph: 63722; Prop: Dr M Venkateswara Rao (7,000 L).
Madhusudana Rao, Kadivari Bungalow,Gajulavega, Vizianagaram 531201.
Raminaidu, A, Isakathota, Visakhapatnam -010 (1,200 L).
Small Farmers Development Agency, Visakhapatnam; Ph: 2023.
Sreenivasa Poultry, Venkogepalem,PO Isakathota, Visakhapatnam -010 (1,600 L).
Srinivasa Poultry Enterprises, 22-68-9 Chinnamvari St, Visakhapatnam -012; Ph: 5075 (farm), 8201 (shop); Prop: Dr W Bhaskara Rao (18,000 L).
Sri Krishna PF, c/o Sub-Post Master, Pedatadi Vada 531231, Vizianagaram Tq -- G S Kumar Varma (2,000 L).
Uma Poultry, New Verkijipalem, Isakathota, Visakhapatnam -010 (2,300 L).
Viswanadha Poultry, Pendurthy 531173 (4,000 L).
Vizag Poultries, Vijayanagar Colony, Visakhapatnam -003;Ph: 4438.

WARANGAL (Pin: 506---)

Amrutha Das PF, Wadapally, Warangal -002 (1,000 L).
Anjali PF, Hunter Rd, Warangal -002.
Annapurna PF, Naimnagar, Hanamkonda -001; Ph: 7517 (2,000 L).
Babu Rao PF, Hunter Rd, Warangal -002.
Bapu Reddy PF, Subedari, Hanamkonda -001.
Bhagyalaxmi Dairy & PF, Fort Rd, Karimabad, Warangal -002; Ph: 679 --Dr Seshagiri Rao (20,000 L).
Chick & Egg PF, Gorrekunta, Warangal -006; Ph: 4535 -- K G Krishna (5,000 L).
DMK Poultry Farm, Chirangi Raja Ram Tota, Kareemabad, Warangal -- D Sudhakar Rao (2,000 L & B).
Durga Venkateswara PF, Hunter Rd, Via REC, Warangal -002; Ph: 7566 -- Smt G Sugna Devi (10,000 L).
Eshwariah, Y, East Fort Warangal, Warangal (3,000 L).
Sri Laxmi PF, Hunter Rd, Warangal -002; Ph: 7611 -- Vangaiah (15,000 L).
Sujatha PF, Reddipalem, Warangal -002.
Tirumala Poultry Industry, Warangal -002; Ph: 4347 (8,000 L).
Veena Poultry, Fort Rd, Karimabad, Warangal -002; Ph: 662 -- Smt Veena Reddy(7,000L)
Venkateswara PF, Hunter Rd, Warangal -002 (10,000 L).
Vijaya PF, Near Under Bridge, Shivanagar, Warangal -002; Ph: 944 (farm), 111 (off), 1110 (resi) -- V Sambasiva Rao(3,000 L).
Vijaya Fatima PF, c/o Vijaya Agencies, JPN Rd, Warangal -002.
Vivekanand PF, Hunter Rd, Warangal -002; Ph: 7372; Prop: Purshotta Rao (5,000 L).
Yesi Reddy, Janardhan, East Fort Warangal, Warangal (2,000 L).

WEST GODAVARI (Pin: 534---)

Annapurna Enterprises, 3A-2-8 YMHA Hall Rd, Eluru -001.
B B Rao Farms, Undrazavaram -216, Tanuku Tq (3,000 L).
Fort Gate PF, K Savaram, PO Tanuku -211; Ph: 21 (PP); Mg Partner: M Rama Mohan Gupta (10,000 L).
Kanakalingeswara PF, Velpur PO -222, Tanuku Tq; Ph: 43 (Velpur); Prop: S Kanakalingeswara Rao (6,000 L).
Krishnamurthy, M, Undrazavaram, Tanuku Tq (5,000 L).
Nagabhushanam, G, Kanur -329 (2,000 L).
Pitchamma, K, Kanur -329 (2,000 L).
Poorna Farms, Bapirajugudem, Eluru Tq; Prop: G Kamaraj (10,000 L).
Ramchandra Rao, S, Undrazavaram -216 (4,000 L).
Rao, B B, Undrazavaram -216, Tanuku Tq (3,000 L).
Royal Poultries, PO Alampuram -146, T P Gudem Tq; Ph: 2662, 2220 (resi); Prop: G Soma Raju (24,000 L).
Sankara Rao, P, PO Bapirajugudem, Eluru -001 (3,000 L).
Sreepadma PF, Kalaparru PO 539006; Prop: C Venkateswara Rao (12,000 L).
Sri Krishna PF, Bye Pass Rd, Tanuku Tq; Ph: 422, 427; Prop: Y Ramakrishna Rao (10,000 L).
Venkata Durga PF, c/o Putta Venkatarama, Alampuram, Tadepalligudem -101.
Venkatarama PF, PO Racherla, Tadepalligudem, Via Pentapadu -166--M Subba Rao.
Venkata Rao, M, c/o M Krishna Murthy, Undrazavaram -216, Tanuku Tq (5,000 L).
Venkateswara PF, Pothunuru -442, Bhimadole Tq; Prop: K Venkateswara Rao, Ph: 66 (5,000 L, 5,000 B).
Vijaya PF, Bapirajugudem, Eluru Tq -- P Sankara Rao (5,000 L).

FOR YOUR ATTENTION : Send your updated entry early to catch the next edition of the YEARBOOK.

Assam

DARRANG (Pin: 784---)

North Bank PF, Daisy Pine Apple Garden, PO Tezpur -001 -- Smt Nazma Rehman (5,000 L).
Rakhya Kumar Poultry Farm, PO Kacharison -- Hari Charan Talukdar.

DIBRUGARH (Pin: 786---)

Anand Poultry, c/o Sri Santos Kumar Ghosh, Santipara, Dibrugarh -001; Prop: Ananda Mohan Ghosh (1,000 L).
Assam PF, Udyognagar, Makun Rd, Tinsukia -146; Ph: 694; Prop: B S Kochhar (100,000 L).
Blue Hill Livestock Farm, PO Rangagore -147, Guijan, Via Tinsukia; Prop: S K Sen Gupta (3,600 L).
Laha, Smt Suvandra, Dikom Tea Estate, PO Dikom -101 (500 L).
Puniya PF, Hazelbank T E, PO Dikom -101; Prop: K K Baruah (500 L, 300 B).

KAMRUP (Pin: 781---)

Bhaskar PF, Birubari, Guwahati -016; Prop: P Mahanta (500 L).
Ceeba PF, 10th Mile, G S Rd, PO Amerigog, Guwahati -023; Partners: B K Choudhury, Ajoy Banerjee (5,000 L).
Pleasant Hill Hatchery Rearing Farm, Khanapara, Guwahati -022.
Ramsali Farm (Prop: Manas Products (Protein) Pvt Ltd), Rajgarh Rd, Guwahati -003; Ph: 27970, 25664, Gram: Manashouse; Dirs: A K Choudhury, D K Choudhury, R K Choudhury, J K Choudhury; Farm Mgr: D K Choudhury; Asst Mgr: B P Pramanik; Farm: PO Noonmati, Guwahati -020 (18,000 L, 3,000 B/week).
Sen Gupta Farm, Birubari, Guwahati -016-- Dhirendra Mohan Sen Gupta (5,000 L).

KARBI ANGLONG (Pin: 782---)

High Land Farm Products, PO Khotkhoti, Via Bokajan -480 (5,000 L, 2,500 B).
Kamakhya PF, Vill Dukukhia, PO Bokajan -480 -- Kali Pada Dey (1,000 L).

NOWGONG (Pin: 782---)

Chakravorty PF, East Lumding, Lumding -447 -- S Chakravorty (3,000 L).

SIBSAGAR (Pin: 785---)

Jaya PF, Club Rd, PO Jorhat -001; Ph: JRT 1271;Prop:B K Choudhury(4,500 L, 500B).
Vikram Poultries, c/o Shantipur Tea Estate, PO Borhat -693 -- Mr & Mrs C M Vohra (2,000 L, 600 B).
Zahira Poultry & Dairy Farm, Gorajan, PO Borkhola 788110; Ph: 46 (Titbar) -- M S Rehman (3,000 L).

Bihar

DHANBAD (Pin: 826---)

A P PF, Chopra Villa, Bastacolla, PO Dhansar -106 -- A S Sabharwal (3,000 L).
Leprosy Mission, PO Gobindpur 828109.
Roy, Dr S N Sarda, Homoeo Hall, Ratnaji Rd, Dhanbad -001 (1,000 L).
Swish PF, Chandan Kayri Rd, PO Chas 827013.

HAZARIBAGH (Pin: 825---)

B R Poultry, New Colony, Hazaribagh -301 -- B R Choudhury (1,000 L).
Coalfield PF, PO Kuju -316 -- K K Sikdar.
Savera Farm, PB No 24, Jhumri Talaiya -409 -- S N Verma.
Sindur PF, PB No 16, Hazaribagh -301 -- Shardindu Kumar Verma (1,000 L & B).

PATNA (Pin: 800---)

Central PF, Anisabad, Patna -002; Ph: 25396; Poul Dev Offr: Dr S Jalal Ahmad.
Model PF, New Railway Colony, Q No 239 EF, PO Khagaul 801105 (1,000 L)
Patna PF, 6-B Rajendra Nagar, Patna -016; Farm: Bhausla Danapur, Janipur Rd, PO Mubarakpur, Phulwarishariff, Patna 801505; Ph: 7400; Jaspal Singh, Ph: 52002 (resi).
R M PF, 12-D Srikrishna Puri, Patna -001; Ph: 22252 -- R N Sahni.
Rajni PF, New Punjabi Colony, Anisabad, Patna -002 -- N P Arora.

RANCHI (Pin: 834---)

Group PF, 'Gulistan', Kanke Rd, Ranchi-001; Ph: 20681; Mg Partner: F Azam; Mgr H K Ghose (3,000 L, 1,000 B/week).
Ramakrishna Mission PF, Morabadi, Ranchi -001; Ph: 21215; Dr R P Pandey (4,000L).

ROHTAS (Pin: 821---)

Rani Maa PF, Sr Offr's Flat No 38, PO Dalmianagar -305; Ph: 556 (farm), 345 (resi); Prop: Rani Sharma (5,000 L, 15,000 B).

SINGHBHUM (Pin: 831---)

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Kabi, Tushar K, 76/A Penur Rd, Sakchi, Jamshedpur -001; Ph: 5968 (2,000 L).
Khan's PF, Asia Restaurant, Dhat-Kideth, Jamshedpur -001; Ph: 6726 (2,000 L).
Tisco Dairy & PF, PO Agrico, Jamshedpur -009; Ph: 24057 (farm); Poul Offr: G P Agarwal; Supdt: Dr A S Sinha (5,000 L, 36,000 B/year).

Chandigarh

CHANDIGARH (Chnd) (Pin: 160——)

A N Poultry Products, 1196 Sector 28-B, Chnd -028; Farm: Jussu Khudda -- Sunil Bhandari (4,500 L).
A S Nagra PF, 1513 Sector 36-D, Chnd -036; Farm: Krishanpura--Lt Comdr A S Nagra.
Amrit PF, 1275 Sector 19-B, Chnd -019; Farm: Vill Sowara -- Rajinder Pal Singh (10,000 L).
Anil PF, 1215A Sector 20-B, Chnd -020; Prop: Anil Sharma.
A-One PF,9 Sector 21-A,Chnd-021—R L Behl.
Attari PF, 3068 Sector 21-D, Chnd -021; Prop: Smt H K Attari.
Avneet PF, 1532 Sector 23-B, Chnd -023; Prop: Smt Avneet.



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Bansal PF, 2446 Sector 23-C, Chnd -023; Ph: 28457 (PP); Farm: Jassu-Khuda — Smt Sulochana (2,500 L).
Batta PF, 3049 Sector 20-D, Chnd -020; Ph: 20272; Farm: Lohgarh -- B S Bhatta (5,000 L).
Bedi PF, 415/Phase I, Mohali;Prop:G S Bedi.
Calcutta PF, 654 Sector 20-A, Chnd -020; Ph: 29334, 26420; Prop: Ajit S Arora (5,000 L).
Chamial PF, 1341 Sector 33-C, Chnd -033; Ph: 21935; Farm: Kandala -- Col Dhani Ram (3,000 L).
Chandigarh Broiler Farm, PO Mullanapore Garib Das, Via Chnd; Ph: 28635 -- Smt Seema Uppal (10,000 B)
Charan PF, 1331 Sector 22-B, Chnd -022; Farm: Nabha Sahib Vill -- Charan Pal Singh (6,500 L).
Cheema PF, 59 Sector 16-A, Chnd -016; Ph: 21137; Farm: Lahora Khuda — Col G S Cheema.
D D PF,1188F,Sector 7-B, Chnd -007; Farm: Vill Lohgarh — Arun Batta (3,000 L).
Dale PF, 733 Sector -11, Chnd -011; Farm: Mauli Jagran — Jhujar Singh (5,000 L).
Dashmesh PF, Vill Bhagu Majra, PC Pukki Roorki (Kharar); Ph: 88383 (PP); Farm: Bhagu-Majra — Iqbal Singh (6,500 L).
Deepak PF, 177 Sector 18-A, Chnd -018; Ph: 27016, 31069; Farm: Darua — H L Verma (4,000 L).
Defence PF, 3105 Sector 35-D, Chnd -035; Prop: K R Rawat.
Dhaliwal, Lt-Col H S, 2570 Sector 35-C, Chnd -035; Ph: 24359.
Dinesh PF, 177 Sector 18-A, Chnd -018; Farm: Vill Darua—Dinesh Varma(4,000 L).
Empire PF, 66 Sector 21-A, Chnd -021; Ph: 29749; Farm: Azizpur -- Davinder Singh, Mahinder Singh (19,000 L).
Golden PF, 81 Sector 23, Chnd -023; Ph: 27491; Prop: Harbans Singh Sethi; Farm: Vill Balong (8,000 B).
Gpsa PF, 2247 Sector 19-C, Chnd -019; Farm: Ghazipur — Tejbir Singh(5,000 B).
Grewal PF, 3022 Sector 19-D, Chnd -019; Ph: 20228; Farm: Sohana -- Brig Zail Singh (1,000 L).
Gupta PF, 3054 Sector 37-D, Chnd -037 — K C Gupta.
H G PF, 129 Sector 8-A, Chnd -008; Ph: 32297; Farm: Rampur — G S Chadha.
H M PF, 1512 Sector 11-D, Chnd -011 — Harcharan Singh.
Henwel PF, 183 Sector 33-A, Chnd -033; Ph: 32843 — Sukhjinder Sibia & Harjit Baidwan.
Hillview PF, 231 Sector 11-A, Chnd -011; Farm: Vill Burail -- M S Sodhi(9,000 L).

Janta PF, 282 Sector 18, Punchkula, Chnd; Ph: 27447; Farm: Mani Majra -- Smt Saurinder (1,500 L).
Jit PF, Vill Jassu Khudda, Sector 14, Chnd -- Puran Singh (2,500 L).
Johnson PF, 89 Sector 18-A, Chnd -018; Ph: 29093; Farm: Chhat -- Birinder Dhillon.
K's PF, 276 Sector 11-A, Chnd -011 -- Brig A L Kochar (15,000 L).
Kartar PF, 259 Sector 11-A, Chnd -011; Ph: 21561 -- Smt Kartar Kaur.
Kumar PF, 27 Sector 19-A, Chnd -019; Ph: 25675 -- K Kumar.
Kumarsons PF, 124 Sector 9-B, Chnd -009; Prop: S Kumar.
Lake Side PF, 3115 Sector 32-D, Chnd -032; Farm: Vill Kishangarh -- Jagdev Singh (6,000 L).
Laywell PF, 37 Sector 11-A, Chnd -011; Ph: 20972; Partners: Col D R Bajaj, Rajiv Bajaj (9,000 L).
Malhotra PF, 616 Sector 18-B, Chnd -018 -- R N Malhotra (26,000 L).
Mander PF, 635 Phase IV, Sector 56, Mohali -- Sq Ldr Onkar Singh (1,800 L).
Mandrin PF, Vill Darua, Chnd -- Devinder Singh (5,500 L).
Man Mohan PF, 1212 Sector 33-C, Chnd -033; Prop: Man Mohan Singh.
Mankok PF, 67 Sector 16-A, Chnd -016 -- H K Jaiswal (4,000 L).
Manraj PF, 1132 Sector 8-C, Chnd -008; Farm: Vill Ghazipur -- Smt Rajinder Kaur (1,600 L).
Mathur PF, 2077 Sector 21-C, Chnd -021; Farm: Lakhnaur; Ph:25587--M M Mathur.
Minhas PF, 3318 Sector 35-D, Chnd -035; Prop: K S Minhas.
Modern PF, 3312 Sector 32, Chnd -032; Ph: 21563, 23204 -- Maj K R Berry (5,000 L, 2,000 B).
Modern PF, 383/Phase 4, Mohali; Ph: 87508; Prop: S Singh.
Morha PF, 1228 Sector 8-C, Chnd -008; Farm: Vill Makhan Majra -- D S Mokha (2,200 L).
Nagi PF, 3204 Sector 32-D, Chnd -032; Prop: Dr P S Nagi.
New PF, 85 Sector 18-A, Chnd -018; Farm: Mani Majra -- Harbhajan Singh(2,000 L).
New Sekhon PF, 1338 Sector 20-B, Chnd-020; Farm: Zirakpur -- Smt Harjit Kaur.
Nishat PF, 3120 Sector 47-D, Chnd -047; Farm: Vill Bakarpur -- Arjun Nath (2,700 L).
Paramjit PF, Lohara Khuda, PO Mullanapore Garib Dass; Ph: 28457 -- Paramjit Singh (3,500 L).
Pathania PF, 2561 Sector 37-C, Chnd -037; Farm: Lakhnaur -- Ishar Singh.
Pawan PF, 90 Sector 28-A, Chnd -028(8,000 L).
Prince PF, 1025 Sector 35-B, Chnd -035; Farm: Lakhnaur -- Smt Geeta Mathur.
Punjab PF, 304 Sector 22-A, Chnd -022; Ph: 29987 (PP); Farm: Bhagu Majra -- Smt Surinder Kaur (2,400 L).
Raj PF, 289 Sector 10-A, Chnd -010; Farm: Darua -- Kartar Singh (2,000 L).
Rajinder PF, 85 Sector 19-A, Chnd -019; Ph:31715;Farm:Balongi--Rajinder Teja.
Rana PF, 2173 Sector 15-C, Chnd -015; Ph: 27334 (resi); Farm: Karala -- G S Rana (6,400 L).
Randhawa PF, 218 Sector 11-A, Chnd -011; Farm: Chhat -- Smt A K Randhawa.
Randhawa PF, 1606 Sector 18-D, Chnd -018 -- Maj S S Randhawa (10,000 L).
Ravindra PF, 3363 Sector 35-D, Chnd -035; Farm: Dayalpura -- R S Gill (3,000 L).
Reena PF, 712 Sector 16B, Chnd -016; Ph: 29586; Prop: Smt Reena Goenka
Rose PF, 2641 Sector 19-C, Chnd -019 -- P S Sabharwal (5,000 L).
Ruby PF, 1282 Sector 18-C, Chnd -018; Farm: Mundi Kharar -- Avtar S Bhatia(2,500 L).
Sacha Sauda Broiler Farm, Mohali Bridge, 115 Sector 16, Chnd -016; Ph: 87506, 26737 -- Harnam Singh (10,000 B).
Sanjeev PF, 67 Sector 16-A, Chnd -016; Ph: 21325 (PP) -- H K Jaiswal (7,000 L).
Sarao PF, Vill & PO Mallanpur Garib Dass, Via Chnd -- Bhajan Singh (2,000 L).
Sarngwal PF, 2149 Sector 35-C, Chnd -035; Ph: 21914; Farm: Sarangpur -- Maj Kartar Singh Bajwa (1,000 B).
Satwant PF, 1532 Sector 23-B, Chnd -023 -- Smt Satwant Kaur.
Satwinder PF, 1830 Sector 22-B, Chnd -022 -- Satwinder Chadha.
Sidhu PF, 2215 Sector 21-C, Chnd -021; Prop: S S Sidhu.
Singh Bros PF, 115 Sector 8-A, Chnd -008; Ph: 21579 -- J S Malik.
Singh, Dr C B, 246 Sector 35-A, Chnd -011; Ph: 25587 (6,000 L).
Singh Broiler PF, 115 Sector 8-A, Chnd -008; Ph: 23527; Farm: Zirakpur -- J S Malik (8,500 B).
Sondhi PF, 22 Sector 20-A, Chnd -020; Ph: 32267; Farm: Mundikharan -- T S Sodhi.
Surjit PF, 1172 Sector 8-C, Chnd -008; Farm: Bhaghu Majra -- Smt Surjit Avtar Singh (3,000 L).
Sushila PF, 531 Sector 7-B, Chnd -007; Farm: Mani Majra -- Smt Sushila Sukhdev (6,000 L).
T Kumar and Co, 235 Sector 18-A, Chnd -018; Farm: Mundi Kharar, See Rupnagar. Ph: 88233 (off), 29753 (resi) -- Krishan Kumar (12,000 L).

Teeny PF, 1018 Sector 27B, Chnd -027; Ph: 31414 (resi) — Maj-Gen Darshan Singh (retd) (5,000 L).
United PF, 2042 Sector 15-C, Chnd -015; Ph: 21132, 23789 — A K Ummat.
Vidir PF, 3113 Sector 24-D, Chnd -024; Ph: 20291; Farm: Darua — S S Pillai (3,000 L, 750 B/week).

Delhi

DELHI (Dlh) & NEW DELHI (Ndh) (Pin:110---)

Akash Farm, DLF, Vill Chattarpur, Mehrauli, Ndh -030; Ph: 653436, 651665 — Smt Varsha Juneja (15,000 L).
Aman PF, Andheria Bagh Mor, Mehrauli, Ndh -030 -- Kartar Singh (3,000 B).
Amar PF, Najafgarh Block, Ndh -043; Brig B S Dahiya (retd), Ph: 806454(10,000 L).
Apex Poultry Products, A/8/20 Rana Pratap Bagh, Dlh -007; Farm: Parhladpur, Dlh; Mg Partner: Kanwar Narinder (3,000 L).
Apka Farm, Dera Mor, Vill & PO Dera, Mehrauli, Ndh -030 -- Smt Sharma (8,000 B).
Arora Bajaj PF, 20 Indian Oil Bhavan, Janpath, Ndh -001; Ph off: 311461; resi: 751 Sohna Rd, Opp New Courts, Gurgaon; Ph: 2844, 2905; Farms: Badshahpur, Gurgaon;Ph:52--Chaman Lal Bajaj (45,000 L).
Bahadaur PF, Vill Gadaipur, Mehrauli, Ndh -030; Ph: 652515 — Bahadur Singh (8,000 L).
Bajaj, D R, Vill Gadaipur, Mehrauli, Ndh -030; Ph off:653806,resi:618801(5,000L).
Bawa PF, Libaspur, PO Samepur Badli, Dlh -042 -- S Girdhari Singh.
Bhandari PF, Near Wireless Station, Mehrauli, Ndh -030 — Smt S Bhandari (5,000 L).
Capital PF, Mehrauli, Ndh -030; Ph: 661674 -- Sunil Kohli & Smt Gurinder Nagi.
Chadha Farms, 159 SFS DDA Flats, Munirka, Ndh -067; Ph: 668467; Farm: Chandanhoola, Mehrauli, Ndh -030; Ph: 669817 -- Vinoo Chadha (10,000 L).
Chic Pic Farms, Carterpuri, Gurgaon, Haryana; (Off: B-1/23 Azad Apartment, Sri Aurobindo Marg, Ndh); Partners: Capt A L Seth & Vinod Verma.
Choice PF, c/o Nandi Provender Mills, 35 Shivaji Marg, Ndh -015; Ph: 581077 -- Anand Virmani (5,000 L).
Dagar PF, Vill & PO Ujwa, Ndh -043 -- Capt K L Dagar (10,000 L).
Dayal PF, Andheria Bagh, Ndh -030 -- M P Narula (8,000 B).
Deepak PF, 6/54 Ajmal Khan Rd, Karol Bagh, Ndh -005; Ph:5722403,5728855; Partners: Mehar Chand, Sham Lal (4,000 B).
Dogra PF, Andheria Bagh, Ndh -030 -- Smt Shanti Devi.
Gayatri PF, Andheria Bagh Mor, Ndh -030; Prop: Smt Chhana Kushwaha (1,000 L, 4,000 B).
Girdhara Singh, 307 Chhattarpur, Ndh -030.
Gita Farm, Vill Manglapuri, Gurgaon Rd, Ndh -030 -- Smt G Narain.
Harindra Farms, Vill & PO Dera, Mehrauli, Ndh -030; Ph: 661674 -- Smt Surjit Kaur (12,000 L).
Henwel PF, Vill Bawana, Ndh -039 -- Jaswant Singh.
Hitkari PF, Andheria Bagh, Ndh -030.
Honey Chix PF, A-235 Suryanagar, Delhi-UP Border; Farm: Loni 201102, UP -- R S Dhaka (6,000 B).
Indra PF, 3974 Roshanara Rd, Dlh -007; Ph: 256810, 256940, resi: 222289; Farm: Bagpat, Meerut, UP -- Panna Singh Bhatia (30,000 B/month, 10,000 L).
Indu Farms, c/o Capt Jaswant Singh, 32 Sri Ram Rd, Dlh -006; Ph: 224036; Farm: 17 MS G T Rd,Vill Kundli,Sonepat(10,000 B).
J G Farms, C-30 Rajouri Garden, Ndh -027; Ph: 502989; Farm: Near Palam Vill -- Joginder Singh, Gurinder Singh (40,000 B, 2,000 B Parents).
Jagdamba PF, 5/6 Punjabi Bagh, Ndh -026; Ph: 595176; Farm: Haryana (See Sonepat) -- Guruditta Mal Sabharwal (12,000 L).
K M PF, Opp Ashok Mission Vihar, Mehrauli, Ndh -030 -- S S Dhillon (4,000 L).
Kamboj PF, Vill Bhatti, PO S P School, Mehrauli, Ndh -030; Ph: 662562 — Dalbir Singh Kamboj (30,000 L).
Kapoor PF, Vill Bhati, Mehrauli, Ndh -030; Ph: 605623, 655445; Prop: Shantilal Kapoor (25,000 L).
Kapur PF, E-24 Hauz Khas, Ndh -016; Ph: 667914 -- Vipin Kapur (6,000 B).
Kapur PF, Vill Rewala, Bijwasan Rd, Najafgarh Block, Ndh -043; Partners: Ramjidass Kapur & Mukesh Kapur, Ph: 806408 (8,000 L).
Kaushal PF, Andheria Bagh Mor, Mehrauli, Ndh -030 (4,000 L).
Kingsway PF, 1 Coronation Rd, Dlh -009; Prop: M P S Randhawa.
M N PF, Andheria Bagh Mor, Mehrauli, Ndh -030 -- Sq Ldr Bhargava.
Maheshwari PF, Andheria Bagh Mor, Mehrauli, Ndh -030 -- Smt Maheshwari Devi.
Malika Bajaj PF, A-5 Mayapuri Industrial Area, Ndh -064; Ph: 593904, 591439; Farm: Vill Badshahpur (See Gurgaon) (30,000 L).



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Manjit PF, C-20 Amar Colony, Lajpat Nagar, Ndh -024; Farm: Patparganj, 11/2 Delhi-Ghaziabad Link Rd; Ph: 643421, farm: 202123, resi: 644066 -- Manjit Singh (20,000 L).

Manjit PF, Vill Gadaipur, Mehrauli, Ndh -030; Ph: 652446 -- Hukam Singh (15,000 L).

Mod Chickens, Vill Sultanpur, Mehrauli, Ndh -030; Ph: 652181; Partners: Amar Nath Juneja, Sunder Lal Juneja, Baldev Juneja, Surjit Singh Saggu (3,000 B/w).

Monu Bajaj PF, A-5 Mayapuri Industrial Area, Ndh -064; Ph: 593904, 591439; Farm: Haryana (See Gurgaon) (20,000 L).

Naaz Poultry, D-8 Nizamuddin West, Ndh -013; Ph off: 262525 -- Mohd Hassan (4,000 B/week).

Nand Evergreen Farm, G-74 Nizamuddin West, Ndh -013; Ph: 611856 -- Sudershan, Deepak Bhagat (5,000 L).

Naraina PF, Nangloi, Najafgarh Rd, Ndh -041; Ph: 86-405 -- Ram Kishan Sharma (9,000 L).

Nitin Farms, DLF, Vill Chattarpur, Mehrauli, Ndh -030; Ph: 653436, 651665, 664040 -- Smt Neelam Juneja (15,000 L).

Oxford Hunter PF, Oberoi Farm, Kapashera, Bijwasan, Dlh 111101; Ph: 393268 (35,000 B, 5,000 L, 2,000 Parent stock).

Raj PF, Gurgaon Rd, Mehrauli, Ndh -030 -- Raj Kumar (10,000 L).

Raja PF, Vill Gadaipur, Mehrauli, Ndh-030; Ph: 652181 -- Kirpal Singh (20,000 L).

Rajesh PF, Andheria Bagh Mor, Ndh -030 -- Sukhdev Singh.

Rajrani PF, 35 Ajit Arcade, Lala Lajpat Rai Rd, Ndh -048; Ph: 681278, 624858 (shop); Farm: Haryana (See Gurgaon) -- Smt Kaushalya Kanwal (20,000 L).

Rakesh & Co, Mehrauli, Ndh -030.

Rama Farms, DLF, Vill Chattarpur, Mehrauli, Ndh -030; Ph: 653436, 651665 -- Vinod Juneja (15,000 L).

Randhawa PF, S-366 Pansheel Park, Ndh-017; Ph: 662724; Farm: Fatehpur Beri, Mehrauli; Ph: 652542 -- Dr G S Randhawa (10,000 B, 2,000 L).

Reena Poultries, Andheria Bagh Mor, Mehrauli, Ndh -030; Ph: 650809, 651364; Farm: Haryana (See Gurgaon); Ph: 3171 -- Ravindra Kaur (20,000 L).

Rekhi Poultries Research & Breeding Farms, Andheria Bagh Mor, Mehrauli, Ndh -030; Ph: 650809, 651364; Farm: No 2, Vill Chakerpur, Dist Gurgaon -- S S Rekhi, Ph: 3171 (Gurgaon) (30,000 L).

Rockland PF, Vill Ghitorni, Mehrauli, Ndh -030; Ph: 650698 -- Smt Gill (17,000L).

Rulemak International, B-73 Defence Colony, Ndh -024; Farm: Paprawat Marg, Najafgarh, Ndh -043; Ph off: 626622, 621252, farm: 806297 (Najafgarh); Pres: Brig S S Malik, Vic Pres: Maj Mohit Malik, Peter S Malik (28,000 B, 9,000 L).

S K Broiler Chicken, Vill Bhatti, PO Dera, Ndh -030; Ph: 661674 -- Harinder Singh (7,000 L).

Sainik Farm, Vill Khanpur, Mehrauli Block, Ndh -030; Ph: 654015 -- Capt R Kumar (8,000 B).

Sandeep PF, Andheria Bagh Mor, Ndh -030.

Sandhu PF, Vill Gadaipur, Mehrauli, Ndh -030 -- Shivdev (6,000 B).

Sawan PF, Vill Bhatti, PO Sawan Public School, Mehrauli, Ndh -030; Ph: 660035 -- Smt S Gupta (15,000 L).

Seth Farms, 1487/5 Moti Cinema Compound, Dlh -006; Ph: 271046; Farm: Loni (3,000 L, 3,000 B).

Sharma, J P, Vill Bhatti, PO Dera,Ndh-030.

Sharma PF, Andheria Bagh, Ndh -030.

Shrestha PF, Andheria Bagh Mor, Mehrauli, Ndh -030; Ph: 652273 -- N P Shrestha (2,000 B).

Silver Valley PF, Andheria Bagh Mor, Mehrauli, Ndh -030 -- Subash Arora.

Somal PF, Andheria Bagh Mor, Mehrauli, Ndh -030.

Sumitra Farm, Andheria Bagh, Mehrauli, Ndh -030.

Surendra Singh, Dr, Vill Dinarpur, Najafgarh, Ndh -003; Ph: 2814 (Gurgaon) (16,000 B).

Taj Services Ltd, Agro-Poultry Div, 36 Janpath, Chanderlok Bldg, Ndh -001; Gen Mgr: Kamlesh Gupta, Ph: 344900, resi: 5729406; Farm: PO Touru, Palwal(90,000B).

Usha Farm, Vill & PO Bhatti, Ndh -030; Ph: 669079 -- Smt Usha Kumari (15,000 L).

Vac PF, F4/8 Krishan Nagar, Dlh -051; Farm: Loni -- V M Bhardwaj.

Veena Farms, DLF, Vill Chattarpur, Mehrauli, Ndh -030; Ph: 653436, 651665 -- Smt Veena Juneja (15,000 L).

Veena PF, Vill & PO Dera, Mehrauli, Ndh -030 -- Smt Veena Kumari (10,000 L).

Vimal PF, Andheria Bagh Mor, Mehrauli, Ndh -030.

Vimama PF, Vill Gadaipur, Mehrauli, Ndh -030 -- Smt Rao (8,000 B).

Zulfe-Bengal PF, G T Rd, Dlh -032; Ph: 200004 -- Ramesh Mahajan (5,000 L).

FOR YOUR ATTENTION : Send your updated entry early to catch the next edition of the YEARBOOK.

Goa

Pin: 403---

A C V PF, Villa Gonsalves, 203 Chuirbel, Tiswadi; Prop: Astrid Gonsalves(1,000L).
Angle PF, Margao 405601 -- N P Angle.
Arun PF, Near Govt Milk Dairy, Curti, Ponda -401; Ph: 141; Prop: K M B Nair (3,000 L, 10,000 B).
Azavedo Farms, PB No 211, Panjim; Farm: Moico-Vaddo-Pierne; Prop: B Azavedo (3,000 L, 30,000 B/year).
Bhone Farm, Pilnero, Bardez -501,Mapusa Tq.
Broilchick, PO Box 62, Panaji -001 -- Edwin Saldanha.
C C PF, Central Caramorod, Chinchinim -715, Margao -- Bento Pereira (2,000 L).
Centre for the Handicapped, Kadamba Rd, Old Goa -402 (1,500 L, 19,200 B/year).
Curti Hill Farm, Curti, Ponda Tq -- Ceasar Menezes (6,000 L).
Dias Farm, Curchorem -706; Prop: Josino Dias (1,000 L, 2,000 B/year).
El-Cid Farm, Ekosim, Bàrdez -501 -- Thomas D'Sa (6,000 L & B).
Enterprise Farm, Ambora-Doutulim, Salcete -718; Partners: Renato Dias, Ronald Dias (1,500 L, 4,000 B).
Excelsior PF, Ambora-Raia, Salcete Tq.
Farm Lands, Socorro, Dosvaddo, Bardez; Prop: Vincent Azavedo (10,000 L).
Franco-Teresa Farm, Sonfator, Xeldem, Tilamol, Kepem (5,000 L, 5,000 B/year).
Girija PF, House No 128, Marna Siolim, Bardez -517; Prop: N Bharghavan Nair (1,300 L).
Golden Acres, PO Sanquelim 403505; Prop: Pratapsingh Rane, Ph: 40 (6,000 L).
Jagannath PF, PO Usagaon -408, Salcete Tq -- Sadanand Shirdhaonkar (30,000 L).
Jay Ganesh Farm, Khandola, Ganapati Wada, Marcila 403107; Prop: Vasudev S Naik (1,000 B, 250 L).
Jolina PF, Calata, Majorda 403713, Salcete Tq; Prop: Sebastias Dias (500 L, 2,500 B/year).
Kakoda Poultry & Agro Farms Pvt Ltd, Pantemol, Vill Kakoda, PO Sanvordem, Curchorem -706; Ph: 114; Mg Dir: H Ratnakar Rau (4,000 L).
Kali Mata Farm, Tariwada, House No 1792, Shiroda 403103; Prop: Smt G B Naik, Ph: 2287 (8,000 B/year).
Lulu's Farm, Near Church, Anjuna-Bardez; Prop: Vincent Souza (4,000 L).
Manika PF, House No 520, Ponguirvall-Pontemoll; Prop: Manika G Naik (300 L).
Marlim Farm, Gudi-Paroda -701, Salcete Margao -- I M Miranda (4,000 L).
Mendonca's PF, Grand Morud, Mapusa -507 -- Joe Mendonca.
Miriam Enterprise, Verna -722, Salcete; Ph: 48; Prop: J A Valadares (12,000 L).
Nirmala PF, Poultry World, PO Usagaon -408, Salcete Tq; Ph: 3701 (Margao) -- John Valadares (20,000 L).
Olegar Nazareth Farms, Punola, Ucassaim -501, Bardez; Farms: Bardez, Ponda; Depot: Shop No 27, Paca do Commercio, Panaji; Mg Partner: Adolf Olegario Nazareth (12,000 L).
Our Lady of Angels Convent, Poultry Unit, Old Goa, Ilhas, Goa Velha -108 -- Sister Sylvia (5,000 B).
Perpetual PF, Mapuca, Camarcazana, Bardez; Prop: Iris Dmello (1,000 L,2,000 B/year).
Phoenix Farm, Curchorem -706; Prop: Felix Miranda; Ph: 3039 (8,000 L)
Poultry Breeders Cooperative Society Ltd, Salcete, Margao -601 (30,000 L).
Rodson Farm, Ponda, Usgaon 403407; Prop: Victor S Rodrigue (6,000 L).
Sawant PF, House No 980 Marlem, Borda, Margao 403602; Prop: Smt S Sawant (15,000 B/year).
Sebastian PF, Near St Jerome Chapel, Duler, Mapua (300 L, 500 B).
Shiroda PF, Kumadda, Shiroda 403103, Dist Ponda; Prop: Ms Shaila S Shirodlkar (6,000 L, 3,000 B/year).
Sirdoncar PF, Chimbel, Ribandar, Panaji -003; Ph: 5725 (Panjim) -- Vinayak Sirdoncar (11,000 L).
St John of God Farm, Old Goa, Tiswadi 403403 (600 L, 1,400 B/year).
St Mary's Convent, Poultry Unit, Curti, Ponda -401.
Suneeti Farms, Poultry World, Usagaon -408, Salcete Tq; Ph: 47. Pune off: "Ashirwad", Ganeshmala, Vithalwadi Rd, -411030; Ph: 440135 -- Smt Suneeti Barve.





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Gujarat

AHMEDABAD (Pin: 380---)

Ahmedabad PF, Opp Jamunanagar, Rakhial Rd, Ahmedabad -023 -- S V Patel, K D Patel (1,500 L).
Egg Land PF, Vill Nandej 382435,Daseroi Tq.
Gebs, S S, Gebs Home, Sion Nagar, Outside Jamalpur, Behranpura, Ahmedabad -022.
Gujarat PF, Opp Jamunanagar, Rakhial Rd, Ahmedabad -005 -- S V Patel.
Hindustan PF, Balkunj, Punit Marg, Maninagar, Ahmedabad -008; Ph: 51592; Prop: Dr H K Mehta; Farm: Narol, Ahmedabad -008 (2,500 B).
Jamil PF, Vill Grivmatha, Daseroi Tq -- Mohmad Jamil.
Kavi PF, 1769 Gandhi Rd, Near Model Talkies, Ahmedabad -- A J Wadhwani (1,000L).
Lucky PF, Vill & Tq Dholka 387810.
Patel, Km Shiporaben, 283/C/2 Nigorishala, Ratan Pole, Ahmedabad -001.
Pirana PF, Pirana 382425; Ph: 391426. Depot: Saiyedwada, Ahmedabad -001.
St Joseph's Poultry Unit, Raipur, Gomtipur, Ahmedabad -021.
Sterling Poultry & Dairy Farm, "Karmagni", Ravikrupa Society, Behind Kameshwar School, Jodhpur Char Rasta, Ahmedabad -015; Farm: Ularia; Prop: Kishore H Clerk (See Gandhinagar) (25,000 L).
Tayabali, Hussein B, 5 Saify Society, Saraspur, Ahmedabad -018.
Vikram PF, Vill Grivmatha, Daseroi Tq; Prop: V D Patel (3,500 B)
Vimal PF, Behind Nylon Net Plant, Ramol Rd, Maninagar, Ahmedabad -018 -- Vinubhai H Patel (4,000 L).
Zaynub PF, 1258 Opp Kalupur Tower, Panchpatti Naka, Ahmedabad -001; Ph: 386716; Farm: Dist Gandhinagar.

BHARUCH (Pin: 392---)

Broach Dist Poultry Farmers Cooperative Society, PO Valia 393135.
Chickland PF, S No 484, At Post Kharach, Hansob Tq, Via Kosamba;Ph:23701(Surat).
Mahanand Bhai Bangdiwala, Station Rd, Opp Tower, Rajpipla 393145 (7,000 L).
Ragrial Farms, c/o Ramanlal Ranchhodji, Hajari, Petia, PO Rajpura, Via Ankleshwar (8,000 L).

BHAVNAGAR (Pin: 364---)

Mutura PF, Vill & PO Vadali, Mahuva Tq -290 -- Habibali R Badama.
Sarasra PF, Vill & PO Vadali, Mahuva Tq -290 -- Nurali Sherali Mukhi.

GANDHINAGAR (Pin: 382---)

Hindustan PF, Narol -405; Ph: 51592 -- Dr H K Mehta (5,000 B).
Sterling Poultry & Dairy Farm, Vill Ularia, Sanand Rd, PO Santhal, Via Sarkhej -210; Ph: 412918; Prop: Kishore H Clerk (See Ahmedabad) (25,000 L).

JAMNAGAR (Pin: 361---)

Valsura PF, Training Design Dept, 90 Nilgiri Marg, INS Valsura -150 (400 L, 2,500 B).

JUNAGADH (Pin: 362---)

Pravin Agriculture Farm, Bamangam PO 388520, Vadal Sorath -- M R Bukhari.

KHEDA (Pin: 388---)

Amar PF, Navli -355, Anand Tq -- Manubhai S Patel.
Amar PF, Vill & PO Jitodia, Anand Tq.
Ambica PF, Kanjada Vill -- Deepak Patel.
Asha PF, PO Sarsa -365, Anand (15,000 L).
Bhagyodaya PF, Vill & PO Surasmal, Nadiad Tq -- Natwarbhai Patel.
Bharat PF, Mota Darwaja, Sarsa -365; Ph: 135 -- R C Patel (5,000 L).
Bochasan Poultry Sahakar Mandli, Catholic Church, Bochasan -140 (6,000 L).
D G PF, PO Nadiad -- Dr V Singh.
Dinraj PF, Vill & PO Navli -355, Anand Tq -- Dineshbhai C Patel.
Gohel, R A, Vill & PO Thamna 388215, Anand Tq.
Gujarat PF, c/o Patel Financiers, Station Rd, Anand -001 -- Vithalbhai Patel (5,000 L).
Harish PF, Vill Ode -210, Anand Tq -- Harish T Patel.
Hitten PF, Vill Bhuncl, Nadiad Tq.
Kajal PF, Mota Darwaja, Sarsa -365; Ph: 127, resi: 110 -- B M Patel (5,000 L).
Kheda Dist Poultry Farmers Cooperative Society Ltd, PO Sarsa.
Laxmi PF, Suthar St, Sarsa -365; Ph: 102, resi: 132 -- B A Patel (5,000 L).
Matar Taluk PF, Cooperative Marketing Society, Matar 387530.
Patel, Chandubhai Rambhai, Mota Darwaja, Sarsa -365; Ph: 126 (10,000 L).
Patel, Girishbhai Ruajibhai, Girdhar Niwas, Vill Sarsa (5,200 L).
Patel, Jashbhai, PO Umreth -220 (4,000 L).
Patel, Jayantibhai Raojibhai, Alkapuri, Sarsa -365; Ph: 125 (4,000 L).
Patel, Mahendrabhai, Vill & PO Thamna -215 (5,000 L).



In the Interest of Farmers and Consumers

Our story takes its roots in the 'seventies when the poultry farmers of Gujarat faced untold exploitation at the hands of unscrupulous traders and middlemen.

Against this backdrop was born in 1979 the Gujarat State Poultry Farmers' Cooperative Federation Limited. As a result, its member-farmers have been receiving a more remunerative price for their eggs.

Simultaneously, a mass education campaign was launched to dispel some myths, like eggs being "hot" in summer or egg is a flesh food. The modern farm egg is sterile and cannot develop into a chick. So it can be included in a vegetarian diet. Hence, our Brand Name: "VEGG"! Today, our "VEGG" eggs are finding their way to more and more homes. In not too distant future, egg may be synonym with "VEGG".

GUJARAT STATE POULTRY FARMERS' CO-OPERATIVE FEDERATION LTD.

GUJARAT STATE POULTRY FARMERS' CO-OP. FEDERATION LIMITED

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TARA 287
PERFORMANCE CHART

Body weight at 20 weeks	1160 gms
Body weight at culling	1660 gms
Hen housed production	280 eggs
Age at 50% lay	23 wks
Age at peak production	28 wks
12 months laying house mortality and culling	6%
Feed per bird per day	105 gms
Egg Colour	White

SONALI 311
PERFORMANCE CHART

Body weight at 20 weeks	1300 gms
Body weight at culling	1800 gms
Hen housed production	270-280 eggs
Age at 50% lay	22-23 wks
Age at peak production	26-27 wks
Average Egg weight	52.5 gms
12 months laying house mortality and culling	6%
Feed per bird per day	115 gms
Egg Colour	Golden



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3. 59-D GARCHA ROAD, CALCUTTA-700 019
4. 31ST SECOND MAIN, GANGANAHALLI, BANGALORE-560 032 PHONE: 365687

Associates

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5-3-1099/2 SOMAJI GUDA
HYDERABAD-500 482
PHONE 35993

Patel PF, Near High School, Vill & PO Navli 358355, Anand Tq; Ph: 78 (Napad), 2035 (Anand); Partners: V C Patel, A P Patel, Smt K H Patel, P J Patel (12,500 L, 3,000 B).
Rajeshwari PF, Ajarpura -310 -- Rambhai Mangalbhai Patel (15,000 L, 7,000 Growers).
Raman PF, Mota Darwaja, Sarsa -365; Ph: 161 -- Ramanbhai Patel (7,000 L)
Rohit PF, c/o Panchal Workshop, Anand-Sojitra Rd, Anand -001 -- Rohit Panchal (10,000 L).
Shakti PF, PO Box 20, PO Sarsa -365, Via Anand -- Rameshbhai M Patel; Ph: 38, Gram: Shakti (45,000 L, 17,000 Growers).
Shital PF, PO Kunjrav -335, Anand Tq -- Kaushik R Patel (10,000 L).
Shivshakti PF, Nadiad -- J S Desai.
Sriji PF, PO Sarsa -365, Anand -- Chandrakantbhai S Patel (50,000 L).
Swastik PF, PO Sarsa -365, Anand (10,000L).
Unnati PF, Vill & PO Alindra 387115, Nadiad Tq.
Vakil PF, Vill & PO Jore, Anand Tq.
Vinayak PF, Vill & PO Thamna -215, Anand Tq -- Vijayakumar A Patel.

KUTCH (Pin: 370---)

Chick Chok Poultry Breeders, Sector D-76, Gandhidham -201 -- H H Chawla (2,000 L).

RAJKOT (Pin: 360---)

Panama PF, Opp Loco Rly Colony, Jamnagar Rd, Rajkot -001.

SAVARKUNDLA (Pin: 383---)

Missionary PF, Himatnagar -001 (2,000 L).

SURAT (Pin: 395---)

Anavil PF, PO Vareli, Palsana Tq (6,000 L).
Anil PF, PO Ena, Palsana Tq (2,500 L).
Ashish PF, Baleshwar 394305; Prop: Shantilal M Patel, Ph: 38 (Palsana).
Desai PF, 5 Patel St, Udhna 394210 -- Mahesh B Desai (5,000 L).
Golden PF, PO Gangadhra 394310 (2,000 L).
Good Luck PF, PO Parab, Palsana Tq(3,000L).
Hind PF, PO Gangadhra 394310 (2,000 L).
Kumar PF, Palsana 394315 (3,500 L).
Kumud PF, Madhi 394340 -- Natwarbhai Patel.
National PF, PO Uchal 394375 -- Y E Timal (4,500 L).
Patel, Mangubhai D, PO Ena, Palsana Tq (4,000 L).
Patel PF, Kadod 394335, Bardoli Tq; Prop: Ramesh C Patel (10,000 L).
Rajeshri PF, Navagam, Udhna R S 394210 (3,000 L).
Rege PF, PO Madhi 394340; Ph: 43 -- Nilamben Rege (5,000 L)
Roshan PF, PO Dumas 394550 (3,000 L).
Rupali PF, Navagam, Udhana R S 394210 (4,000 L).
Sanjay PF, Navagam, Udhana R S 394210 (2,000 L).
Sardar PF, PO Ena, Palsana Tq (8,000 L).
Sardar PF, Nani Dhamarod, Palsana Tq -- R M Patel (8,000 L).
Shakuntala PF, Vill Parvat, Via Udhana, Chroiyashi Tq -- Dr P J Bhatt (6,000 L).
Sheth PF, PO Baleshwar 394315 -- Dawood E Sheth (3,000 L).
Sorabkhan, R M, Opp Umarwada Tol Naka, Parso Bhasta, Surat -003 (2,500 L).
Subhash PF, PO Vanisha, Palsana Tq (3,000L).
Sunil PF, Madhi 394340 -- Prof Suresh Mehta (15,000 L).
Surat Dist Poul Farmers' Coop Society Ltd, Near Rly Station, PO Chalthan 394305.
Sushil PF, PO Madhi 394340; Ph: 16, 90 -- Nathubhai Patel (18,000 L).

VADODARA (Pin: 390---)

Dwarkesh PF, Ganesh Bhuvan, Behind Music College, Vadodara -001 -- Ghanshyam B Patel (10,000 B).
Papcock Farms Inc, Harni Rd, Vadodara -006; Ph: 3253 -- Jawahar D Patel (2,500 L).
Patel PF, PO Ranoli 391350 (3,000 L).
Patel PF, c/o Mahul Agencies, Behind Music College, Vadodara -006; Farm: Tarsali -- Ghanshyam Patel (6,000 L).
Priyal PF, Vill Luna, Jamboosar Rd, Near Padra 391440; Office: Navarang Apts, Fatehganj, Vadodara -002; Partners: F E Talib, M V Amin, Ph: 82149, 63983 (20,000 L).
Teya PF, Navarang Apts, Fatehganj, Vadodara -002; Partners: Farookbhai E Talib, Ph: 63983, Manish V Amin, Ph: 82149; Farm: Tandalja, Vadodara (10,000 B).
Vasco PF, Vasco Estate, Opp Atladra Rly Station, Vadodara -012; Ph off: 55245, 2623, farm: 65209, resi: 52231 -- V L Hotchandani (15,000 L).

VALSAD (Pin: 396---)

Asha PF, Kachholi -370, Gandevi Tq (2,000L).
Chitra PF, PO Kachholi -370, Gandevi Tq -- Manibhai N Naik (3,000 L).
Desai PF, PO Gundlav, Via Valsad -- Sumantbhai (4,000 L).
Gujarat PF, Durlabh Vatika, Mahadevnagar, Nursery Rd, Bilimora -321 -- Govindbhai D Patel (4,000 L).
Jai Jagat PF, PO Vesma -475, Via Navsari -- Prof Mohan Bhakta (2,000 L).
Jayest PF, c/o Kwality Fabricators, C1-19 GIDC Estate, Antalia, Bilimora -321 -- Ishwarbhai Mistry (4,000 L).

Jitendra PF, PO Dungri -375 -- Nanubhai Patel (3,500 L).
Manubhai PF, PO Undach, Gandevi Tq -- M N Patel (3,500 L)
Mayur PF, c/o Kwality Fabricators, C1-19 GIDC Estate, Antalia, Bilimora -321; Ph: 2674, 2660 -- D L Mistry (4,000 L).
Mayur PF, PO Vesma -475 (2,000 L).
Model PF, PB No 42, Nursery Rd, Mahadev-nagar, Bilimora -321; Ph: 2723 -- Mahendra Chauhan (8,000 L).
Naik, Nanubhai A, Kachholi -370, Gandevi Tq (2,000 L).
Naik, Nanubhai G, PO Ganghor, Gandevi Tq (2,000 L).
Pankaj PF, Nursery Rd, Mahadev Nagar, Bilimora -321; Ph: 381 -- Amarat lal N Joshi (10,000 L).
Patel, Dhirubhai Bhanabhai, PO Undach, Gandevi Tq (3,000 L).
Patel, Nathubhai Makanji, PO Undach, Gandevi Tq (2,000 L).
Patel PF, PO Desra -324, Gandevi Tq -- Prof Ambalal B Patel (4,000 L).
Patel PF, PO Vesma -475, Via Navsari -- Jivanbhai (2,500 L).
Praful PF, At & PO Dhandori, Gandevi Tq (2,500 L).
Rajesh PF, Kachholi -370 (4,000 L).
Sardar PF, PO Aru Char Rasta, Via Navsari -- Dilip Desai (4,500 L).
Valsad Jilla Poultry Farmers Cooperative Society Ltd, Opp Laxmi Talkies, Bilimora -321; Ph: 603; Mgr: Lallubhai R Patel.
Vesma PF, Vesma -475 -- Jivanbhai Patel.
Vistasp PF, PO Khund, Chikhli -396 521 -- Smt Katrak (4,000 L).

Haryana

AMBALA (Pin: 135---)

A S Food & PF, Naraingarh Rd, Ambala 134003; Ph: 56083 -- Devinder Singh (6,000 L).
Amar PF, Vill & PO Nagal, Via Yamunanagar -001 -- K S Sandhu (5,000 L).
Ashok Nanda PF, Vill Jandli (5,000 L).
Ashoka PF, BDO Kothi, Jarauf Rd, Ambala 134003 (3,000 L).
Attar Singh Manjit Singh, Commission Agents, PO Barara 133201 (3,000 L).
Baldev PF, Vill Jharmari (4,500 L).
Bhatia Poultries, 53 Khanehi Nagar, Model Town, Ambala 134003; Ph: 6643 -- H S Bhatia (4,000 L).
Bhutani PF, Vill Sasauli, Kamajra Rd, PO Jagadhri -002; Prop: Smt Lajwanti (3,500 L).
Bindra PF, Vill Farakpur, Yamunanagar -002 (6,000 L).
Capt Nanda PF, Vill Jandli (5,000 L).
Capt Sachdeva PF, Naraingarh Rd, Ambala 134003 (3,000 L).
Captain PF, Nasirpur, Hissar Rd, Ambala 134003; Prop: Capt O P Gulati (3,000 L).
Chabbra PF, Vill Gaba, Yamunanagar (6,000 L).
Chawla PF, Chharauli Rd, Jagadhri (4,000 L).
Choice PF, Farakpur Rd, Jagadhri Workshop -002 -- Smt Charu Chandra (3,000 L)
D K Egg Farm, Radhaur Rd, Near Octroi Post No 3, Yamunanagar -001 — Kartar Singh (3,000 L).
Daljit Singh, Vill & PO Khera, Via Jagadhri (3,000 L).
Deepak PF, PO Raipur Rani, Ambala 134204 -- Harbans Lal (4,000 L).
Deggal PF, c/o Sant Ram, Egg Merchant, PO Barara -201 (3,000 L).
Delight PF, Near Dhulkote Rly Station, Ambala (13,000 L).
Devender PF, Naraingarh Rd, Ambala 134003 (3,000 L).
Dr Yash PF, Vill Joria, Yamunanagar (8,000 L).
Duggal PF, Shahpur, Yamunanagar (6,000 L).
Goba PF, Railway Workshop Rd, Yamunanagar -001 (6,000 L).
Gujranwali Farm Products, PO Kallarheri 134003 -- Maj Gen Dalbir Singh (4,500 L).
Gulati PF, Vill Sasouli, PO Jagadhri Workshop -002 (3,500 L).
Gurdev PF, Vill Dhulkote, Ambala (3,000 L).
Harbans PF, Naraingarh Rd, Ambala 134003 (4,000 L).
Hardip PF, Chandpur, Jagadhri -003 — Dalip Singh (4,000 L).
Harmanjeet PF, Sasouli Rd, Near ITI, Yamunanagar.
Inderjeet PF, Farakpur Rd, Near Railway Fatak, Jagadhri Workshop -002 (5,000 L).
Jag PF, Jesico Colony, Joroda Gate, Jagadhri -003 (3,000 L).
Jagdev PF, Railway Workshop Rd, Yamunanagar -001 -- Gurmeet Singh (3,000 L).
Kalra PF, Chhachhrauli Rd, Yamunanagar -001 (5,300 L).
Kanwal PF, 65A Model Town, Yamunanagar -001 -- Pritam Singh (4,000 L).
Kapoor, S C, Camp Colony, Yamunanagar -001 (3,000 L).
Khanna PF, Model Colony, Yamunanagar -001 (3,500 L).
Khanna PF, Vill Chandpur, Yamunanagar -001 (2,500 L).
Manjit PF, 70 New Kamala Colony, Yamuna-

nagar -001; Ph: 6162 -- Manjit Singh (8,000 L).
Minto PF, Vill Chandpur, Yamunanagar -001 (12,000 L).
Modern PF, Naraingarh Rd, Ambala 134003; Ph: 56083 -- S Kuldip Singh (10,000 L).
Mokha PF, 1428/B-XI Badshahi Bagh, Near Civil Courts, Ambala 134001; Prop:Capt Gurcharan Singh (1,000 L).
Naharpur PF, Vill Naharpur, Yamunanagar (5,000 L).
Nanda Poultries, 13 Civil Lines, Ambala 134003; Ph: 57216 -- Ajay Nanda (1,000 L).
National PF, Vill Kallarheri, Ambala Cantt 133001 (6,000 L).
North View PF, Vill Kharvan, Yamunanagar (4,000 L).
O P Kalra PF, Chharauli Rd, Jagadhri (5,500 L).
Oberoi PF, Vill Rajouli 133201; Mg Partner: Anil K Oberoi; Ph: 85 (Barara) (6,000 L).
Pahwa PF, Vill Burian, Yamunanagar (3,000 L).
Perpetual Help Society, 114 Lawrence Rd, Ambala 133001 (3,000 L).
Pintu PF, 90 Krishan Nagar, Ambala Cantt.
Pratap PF, Near Chandpur, Vill Furkhapur, Jagadhri Workshop -002 -- Pratap Singh (10,000 L).
Radhey Shyam, Jagadhri Feed Store, Yamunanagar -001 (4,000 L).
Radour PF, Vill Radour, Yamunanagar (4,000 L).
Rajindra PF, Naraingarh Rd, Ambala City 134003 (4,000 L).
Ramanjit Broiler Farm, Chhachhrauli Rd, Jagadhri; Ph: 5048; Prop: J S Bindra (5,000 B).
Ree & See PF, Asa Singh Bagh, Ambala City 134003 (3,000 L).
Sahney PF, c/o Ambala Cold Storage, Ambala (2,500 L).
Sandhu Farm, Qtr No G-142, HMT Colony, PO Pinjore 134101 -- C S Sandhu (2,000 L).
Santokh PF, Vill Chandpur, Yamunanagar -001 (4,500 L).
Shah PF, 3/27 Industrial Area, Yamunanagar -002 -- R S Mehndiratta (5,000B).
Shammi PF, Asa Singh Bagh, Naraingarh Rd, Ambala City 134003 (17,000 L).
Shani PF, Vill & PO Nasinpur, Ambala (2,500 L).
Sher Singh PF, Vill & PO Chandpur, Yamunanagar -001; Ph: 2439 (resi) -- S K Singh (8,000 L)
Sterling Poultry, Bhagat Jaswant Singh Marg, Ambala City 134003; Ph: 56684 -- Smt Tejinder Singh (7,000 L & B).
Surjeet PF, Vill & PO Sounda (6,500 L).
Vishal PF, Punjalasa Chowk, Naraingarh, Ambala 134203 (3,000 L).
Vohra PF, Dhulkot, Ambala 134003; Ph: 56669 -- B L Vohra (1,500 L).

BHIWANI (Pin: 125021)

Bindra PF, 1 Canal Colony, Bhiwani; Prop: Anurag Bindra, Ph resi: 2139 (2,000 L, 3,000 B).
Leghorn PF, Vill Charkhi Dadri, Bhiwani -- Maj-Gen Umrao Singh (5,000 L).

FARIDABAD (Pin 121---)

Deep PF, c/o Dr Joginder Singh, By-pass, PO Hodal -106; Prop: Amar Deep Singh, Ph Farm & resi: 82 (2,000 L).

GURGAON (Pin: 122---)

Arora Bajaj PF, 751 Sohna Rd, Opp New Courts, Gurgaon -001; Farm: Vill & PO Badshahpur; Ph farm: 52, off: 311461, resi: 2844, 2905 -- C L Bajaj, Arun Bajaj (45,000 L). (See Delhi).
Arun PF, Vill Sirhol, Gurgaon -001 -- Arun Kumar (5,000 B).
Ashirwad PF, Vill & PO Wazirpur (2,000 L).
Ashok PF, Behrampur, Gurgaon -- Ashok Kumar Yadav (3,000 L).
Bhagg Singh, Pataudi Rd, Gurgaon; Ph: 667263 (resi) (3,500 L & B)
Chawdhary PF, Railway Rd, Gurgaon -001 -- Ajay Nanda (4,000 L).
Chhabra PF, Vill Madawas, Badshapur -101 (8,000 L).
Chick-N-Eggs, Vill & PO Daulatpur, Carterpuri -- B S Gill (1,500 L & 2,000 B).
Col Datta PF, Vill & PO Carterpuri (2,500L).
Deepak Bhagat PF, Vill Carterpuri, Gurgaon -001 (4,000 L).
Dimple PF, Vill & PO Daulatpur, Carterpuri -- Sham Sawara (10,000 L).
Gagson PF, Vill Garhi-Harsaru 123505 (10,000 B).
Gill PF, Vill & PO Carterpuri (1,000 L).
Golden Poultry, Vill Sikandarpur, Mehrauli-Gurgaon Rd, PO Nathupur; Ph: 633, 697451 (Delhi)--J S Chhatwal (15,000 L).
Hasija, R K, New Colony, Gurgaon -001 (5,000 B & 500 L).
Kanhaiya Lal, Vill & PO Badshapur (3,500L).
Kapson Poultries, Carterpuri, Gurgaon -- Dr I S Kapoor (5,000 B & 1,000 L).
Kataria PF, Pataudi Rd, Gurgaon -001 (4,000 B).
Khattan PF, Vill & PO Sohna (2,500 L).
Khera PF, Vill & PO Carterpuri, Gurgaon (5,500 L).
Khera PF, Vill & PO Daulatpur, Carterpuri

-- Vig; Ph: 391992 (6,000 L).
Khurana, Vinay, Vill Dhannapur (2,000 L).
Krishna PF, New Colony, Gurgaon -001 (2,000 L).
Malika Bajaj PF, Vill & PO Badshahpur -101; Ph off: 591439, 593904 (Delhi) (21,000 L) (See Delhi).
Manish PF, Vill & PO Carterpuri (6,000 L).
Monga PF, Vill & PO Badshahpur -101 -- Ram Prasad Monga; Ph: 7126070 (Delhi) (30,000 L).
Monu Bajaj PF, Sohna-Alwar Rd, PO Badshahpur -101; Ph: 591439, 593904 (Delhi) (21,000 L) (See Delhi).
Nand Evergreen Farm, Vill & PO Daulatpur, Carterpuri -- Bhagat (5,000 L).
Narula PF, Vill & PO Badshahpur -101 -- Surender Kumar Narula (16,000 L).
New Pachix Farms, Vill & PO Carterpuri (4,500 L).
Raj Rani PF, Pataudi Rd, Wazirpur, Gurgaon -001; Ph: 2590, 681222 (Delhi) -- Smt Kaushalya Kanwal (25,000 L) (See Delhi).
Ravi Bajaj PF, Vill Badshahpur -101; Ph: 516073 (Delhi) (8,000 L).
Reena Poultries, Vill Chakearpur, PO Gurgaon; Ph: 3171 -- Smt Ravindra Kaur (20,000 L) (See Delhi).

Rekhi Poultries Research & Breeding Farm, Vill Chakearpur, Gurgaon; Ph: 3171 -- S S Rekhi, Ph: 650809 & 651364 (Delhi) (30,000 L & 30,000 B) (See Delhi).
Saluja PF, Daulatabad Rd, Gurgaon -001 -- G S Saluja (7,000 L).
Satish PF, Delhi-Alwar Rd, Sohna -103 -- Satish Kumar (4,000 L).
Sawhney PF, 196 New Colony, Gurgaon -001; Ph: 2528 -- Pramod Sawhney (20,000 B).
Shigata PF, Vill & PO Daulatpur, Carterpuri -- Smt K Mathur, Ph: 662201 (Delhi) (2,000 L).
Shoba Rani PF, Pataudi Rd, Vill Garouli; Ph: 2008, 621647 (Delhi resi) -- Ashok & Vinod Malhotra (8,000 L).
Surinder PF, Vill & PO Sohna (10,000 L).
Susami PF, Vill Naharpur Rupa, PO Khandra -- Hari Ram (3,000 L & 3,000 B).
Universal PF, Vill & PO Daulatpur, Carterpuri -- Sahni & Sethi (10,000 L).
V G PF, Daulatabad Rd, Gurgaon -001 -- S S Sondhi & J S Saluja (6,000 L).
Vanisha PF, Vill & PO Khandsa, Begumpur Rd, Gurgaon (5,000 L).
Venraj PF, Pataudi Rd, Gurgaon (2,000 L).
Vijai PF, Vill & PO Badshahpur (4,000 L).
Whiteland Poultries, Railway Rd, Gurgaon -001; Ph: 3109 -- Ajay Nanda (8,000 L, 6,000 B).

HISSAR (Pin: 125---)

Popular PF, Jawahar Nagar, Hissar -001 (2,500 L & 1,000 B).

JIND (Pin: 126102)

Baxi PF, Railway Rd, Ranbir Singh Colony, Jind.
Glamour Poultry Breeders, Jind; Ph: 2235, 2305 (6,000 L).
Grover PF, Patiala Chowk, Jind.
Lyallpur PF, Jind; Ph: 2235, 2305 (resi) -- Sukhbir Singh Bahl (6,000 L).

KARNAL (Pin: 132---)

Amar PF, Vill Modipur (2,500 L).
Anuranjan Singh, 475 Model Town, Karnal -001 (3,000 L).
Ashoka PF, Chaura Bazar, Roop Nagar, Karnal -001; Ph: 2301 -- Dr A L Gupta (4,000L).
Azad PF, 1 Mall Rd, Karnal -001.
Balbir PF, Vill Kambohpura, Karnal(3,000L).
Bhatia PF, Vill Bazida Zattan (2,000 L).
Bhupinder's PF, Vill&PO Shamgarh (10,000L).
Chadha PF, Poultry Area, Nilokheri(2,000L).
Chaudhry PF, Jarnaili Kothi, 188-C Model Town, Karnal -001; Ph: 2257 -- Khushi Ram (3,500 L).
Dattana PF, Vill Gheer (3,500 L).
Dhingra PF, Bye-Pass, Karnal (3,000 L).
Egg Lay PF, G T Rd, Karnal (2,000 L).
Gaba PF, G T Rd, Gharaunda -114; Prop: Prem Kumar Gaba (2,200 L).
Gurjit Singh, Vill Shamgarh, PO Tarauri -116 (2,000 L).
Haryana PF, New Prem Nagar,Karnal (4,500L).
Jai Bharat PF, Ring Rd, Karnal (2,500 L).
Jogindra PF, Kalri Khalsa, Nanhera (Indri), PO Indri -001; Prop: Joginder Kumar (2,000 L).
Kadan, Maj, Mohalla Jattan, Meera Ghati, Karnal -001 (2,000 L).
Kailash PF, House No 1783, Urban Estate, Karnal -001 (3,000 L).
Kalyan PF, Kutail, Karnal (2,500 L).
Kamboj PF, Vill Kunjpura (3,000 L).
Kisan PF, c/o Kisan Cold Storage, G T Rd, Karnal -001 (5,000 L).
Madan PF, G T Rd, Gharaunda -114; Prop: Madan Lal, Ph resi: 157 (5,000 L).
Meenakshi PF, 475 Model Town, Karnal -001; Ph: 2341 -- Sarbjit Singh (4,000 L).
Mohar Singh, Vill Kutail (10,000 L).
Nanda PF, House No 157/7, Sant Nagar, Karnal (2,000 L).
Nanda Lal PF, Vill Saidpura (3,000 L).
Narang PF, Hospital Rd, Nilokheri (4,000L).
Naresh PF, Behind Octroi Post, G T Rd, Karnal -001 (2,000 L).

Paramjeet PF, Vill & PO Shamgarh (4,000L).
Parkash PF, Poultry Area, Nilokheri (6,500 L).
Paul Chicken PF, Kunjpura (3,500 L).
Pawan PF, G T Rd, Gharaunda (3,000 L).
Preetam PF, Poultry Area, Nilokheri (2,500 L).
Prem PF, Old Mandi, Near Railway Station Area, PO Nilokheri -117; Prop: Vijay Kumar, Ph: 161 (3,000 L).
Prem Vir PF, G T Rd, Karnal -001 (4,500L).
Prince PF, Delhi Bye-Pass, G T Rd, Karnal.
Punjab PF, Kunjpura Rd, Karnal -001; Ph: 2580 (4,000 L).
Rajindra PF, Vill Kutail (3,000 L).
Randhir PF, Vill Phoosgarh, PO Kunjpura -002 -- Randhir Singh (10,000 L).
Rupinder Dhillan (Smt), Vill Shamgarh, PO Tarauri -116; Ph: 79 (7,000 L).
Saharan PF, Vill & PO Shamgarh (4,000 L).
Satish PF, 149 Model Town, Panipat -103 -- Sikandar Lal Mehta (2,000 L).
Sehgal PF, Asand Rd, Panipat -- Barkat Ram Sehgal (3,000 L).
Shamsher Singh, Col, Kadan House, G T Rd, Karnal By-Pass -001; Ph: 2688 (5,000L).
Shanti PF, G T Rd, Karnal -001; Ph: 3930 -- S Gupta (6,000 L)
Subhash Chander PF, Poultry Area, Nilokheri (2,000 L).
Surrinder Kaur, Kissan Basti, Nilokheri (2,000 L).
Tej Singh, c/o Tej Tyres, Karnal -001 (3,000 L).
Tubro Poultry Breeding Farm, Vill & PO Charao, Kaithal Rd -- P K Bansal (10,000 L).
U P PF, 100-H, Opp Gemarly Kothi, Karnal -001; Prop: Harbans Lal, Ph farm: 55 (Jundla), resi: 4253 (Karnal) (3,300L).
Universal Farms, PO Daar, Vill Hartari, Panipat -103; Ph: 616348 (Delhi) -- Joginder Singh (3,000 L, 2,000 B).
Vijay PF, 586 Roopnagar, Karnal -001 (2,000 L).
Vinter Pullets-Eggspurts, Krishnapura House, Panipat -103 -- V K Khanna.
Virk PF, G T Rd, Karnal By-Pass -001; Farm: Mira Ghati -- Raghubir Singh (25,000 L).
Welfed PF, Kachwa Rd, Karnal (2,500 L).

KURUKSHETRA (Pin: 132---)

Amrik Singh PF, Vill & PO Nalvi.
Asa Singh PF, Vill Kalashi, PO Nagla, Via Shahbad.
Deep PF, Zansa Rd, Shahabad Markanda -135 (2,500 L).
Gill PF, House No 270, Railway Rd, Shahabad (3,000 L).
Naseeb PF, Vill Nalvi, Shahabad (2,000 L & B).
National PF, Near Shiv Mandir, Shahabad Markanda -135 (3,000 L).
Prem Singh, Vill & PO Teoutha (3,500 L).
Satish Kumar PF, New Colony, Shahabad.
Sidhu PF, Vill Sadherkeri, PO Chika -034 -- Gurutej Singh Sidhu (3,000 L).
Style Bird PF, Shahabad Markanda -135 (10,000 L).

ROHTAK (Pin: 124---)

Ahuja PF, 207-R Model Town, Rohtak (6,000L).
Ajeet PF, Vill & PO Badli Bhani -105, Mchau Teh.
Anil PF, House No 5029 Chawala Colony, Rohtak -- Harish Chand.
Bob PF, Near Flour Mill, Opp Chungi, Bhiwani Rd, Rohtak (3,000 L, 10,000 B).
Gulati PF, Hissar Rd, Rohtak.
Hindustan PF, Near I T I, Rohtak -- Shardari Lal.
Janta PF, House No 535, W No 33 Janta Colony, Rohtak -001 -- Zile Singh (6,000 L).
Jeet PF, Vill & PO Bhaini Surjan -128; Prop: Ajeet Singh (2,500 L, 7,500 B/year).
Salooja PF, Civil Rd, Rohtak; Ph: 3731; Farm: Ring Rd, Near Bhiwani Rd Chowk, Rohtak -- Tej Bhan Salooja (2,000 L).

SIRSA (Pin: 125---)

Dabwali PF, Delhi Rd, Mandi Dabwali -104; Ph: 257 -- Vinod Kumar Kochhar (4,000 L).
Kapoor PF, 56-B New Mandi, Sirsa -055; Prop: Balvinder Kapoor; Farm: Natar Rd (1,500 L).
Mehta PF, Band Gate, House No 55, Multani Colony, Sirsa -055; Prop: Satish Mehta, Ph resi: 21568 (1,200 L, 3,000 B/year).
Mehta PF, Shop No 165, New Mandi, Sirsa; Prop: Ramesh Mehta (1,100 L).
Phagoria PF, Vill Dabwali -104.
Puja PF, 220-C New Mandi, Sirsa -055; Ph: 2473 (off), 2886 (resi); Prop: Pardeep Kumar Malhotra (3,000 L).
Sharma PF, Kirti Nagar, Sirsa; Prop: Subhash Sharma (1,500 L).
Vinod PF, Vill & PO Chautala -101 -- Guthi Ram (3,000 L).
Zamidara PF, c/o Autoways India, Hissar Rd, Sirsa -055; Ph: 21161; Prop: Nipun Jain (2,000 L)

SONEPAT (Pin: 131---)

Choudhury Poultries, Vill & PO Shamabad.
Essex Farms Pvt Ltd, 17th Milestone, G T Karnal Rd, Vill & PO Kundli -028; Ph: 89378 (Narela), 664056 (Delhi); Dir: Arun K Goyle; Farm Mgr: Dr S C Goyle.
Fakira PF, Thakur Basti, Gohana 124301 --

Faqir Chand (500 L).
Good Luck PF, Vill & PO Bari; Prop: Inderjit, Ph farm: 56, resi: 505479 (Delhi) (21,000 L).
Jagdamba Poultries, 58 Km-stone, G T Rd, Vill Barhi, PO Murthal -027; Ph: 56 (Gannaur). Head off: New Delhi: 5/6 Punjabi Bagh, -110026; Ph: 505176, 505479 (resi) -- Gurditta Mal Sabharwal (11,000 L).
Laxmi PF, 58 Km-stone, G T Rd, Vill Barhi, PO Murthal -027 -- G M Sabharwal, Ph Delhi: 505176 (off), 505479 (resi), 56 (Gannaur farm) (20,000 L).
M S Bros PF, Vill Rasoi -- Moti Singh (3,000 L).
Neel Kamal PF, Vill & PO Rajpur -- Vijendar Singh.
Popular PF, Vill & PO Gannaur -101 (6,200 L).
Sabharwal PF, Vill & PO Bari; Ph: 56; Prop: Pavan Kumar (20,000 L).
Sharma PF, 13 Narinder Nagar, Sonepat -001; Prop: Satpal Sharma (2,300 L).
Singh PF, G T Rd, 9th Mile, Vill Rasoi (8,000 L, 5,000 B).
Vicky PF, G T Rd, Vill & PO Barhi.
Vikas PF, 32 Km Delhi-Karnal G T Rd, Vill & PO Kundli -028--S C Single (10,000L).

Himachal Pradesh

Adarsh PF, Vill & PO Tundi, Via Sihaunta 176207, Chamba Dist -- S S Chauhan (1,000 L).
Bharat PF, Mohala Arjunnagar, Near Gurdwara, Chamba 176310 (2,000 L).
Himalaya PF, Vill Benaik, PO Bhojpur 175002, Mandi Dist; Mgr: Karan Shumsher Singh Sain (2,500 L).
Rajinder Poultry & Candle Works, Vill & PO Jakhera, Una Dist -- R K Sharma.
Snowhite Farms, Mattaur, PO Ghurkari, Kangra; Ph: 81 -- Saini (6,000 L & B).
Swarghat Farm (Poultry & Horticulture), c/o Tarachand Malhotra & Son, PO Mandi 175001; Ph off: 512, resi: 280; Farm: Kiratpur Sahib, Ph: 31 (14,000 L, 3,000 B).

Your Project Officers Extension Officers will welcome a copy of this YEARBOOK to assist them in propagating scientific management practices among small marginal farmers and landless labourers. The Directory Section of the YEARBOOK will help them locate stock and inputs as well as soures of their supplies in the country and market the produce.

Jammu & Kashmir

JAMMU REGION (Pin: 180---)

A S PF, Ward No 2, Hiranagar 184142, Kathua Dist (4,000 L).
Anand PF, 272 Rehari Colony, Jammu -005 (1,000 L, 2,000 B).
Atma Singh PF, Hira Nagar 184142 (2,500 L).
Bishamber Singh, Vill & PO Topsherkhani, Jammu -001 (2,000 L).
Diamond PF, Vill & PO Muthi, Jammu -001 -- Yogesh Khosla (2,000 L).
Gopal Singh (Capt), Kotli Shah Daula, R S Pura 181102 (2,000 L).
Gurmit PF, Vill & PO Chohalla, Teh R S Pura (3,000 L).
Highway PF, Nanakpura, Jammu -001 -- Sohan Singh Chib (2,500 L).
Iqbal PF, Ward No 6, Hiranagar 184142, Kathua Dist; Ph: 192; Prop: G M Bhat (3,000 B)
Jay Kay PF, 236 Kanak Mandi, Jammu -001; Ph: 6812; Farm: Talab Tillo -- Ashok Gupta (3,000 L).
Kapoor, Chaman, Resham Colony, Jammu -001 (2,500 L).
Khosla, Vinod, Vill & PO Muthi (Barnai) (2,000 L, 2,000 B).
Madhu Poultries, Hatli Morh, Kathua 184101; Ph: 045 -- Smt Prem Bhatia (4,000 L).
Mohan Lal Jarial, c/o Capt B S Digiana, PO Satwari, Jammu Cantt -003 (3,000 L).
Neetu Farm, Vill Nehalpur Simbal, R S Pura 181102; Prop: Sareshta Kumari (2,500 L).
Pritam Singh, Kotli Shah Daula, R S Pura 181102 (3,000 L).
Raghubir Singh, Capt, Vill & PO Simbal Camp 181104, Teh R S Pura (2,500 L).
Raj Rani PF, Kiran Nagar, Jammu -001; Farm: Talab Tillo -- Kuldip Raj Wattal (1,500L)
Raj-Hath PF, c/o Janta Cycle Works, Raghunath Bazar, Jammu -001; Ph: 6131; Farm: Muthi -- Balraj Sharma (3,000 L).
Royal PF, Vill Lalay-da-bagh, PO Muthi, Jammu (2,000 L).
S K PF, Muthi, Jammu -001 -- Surinder Singh Vakil (2,500 L).
Sharma, Kundan Lal, Ward No 4, Hiranagar 184142, Kathua Dist (3,000 L).
V K Puri Farm, Puri House, Pacca Danga, Jammu -001; Prop: V K Puri.

SRINAGAR (Pin: 190---)

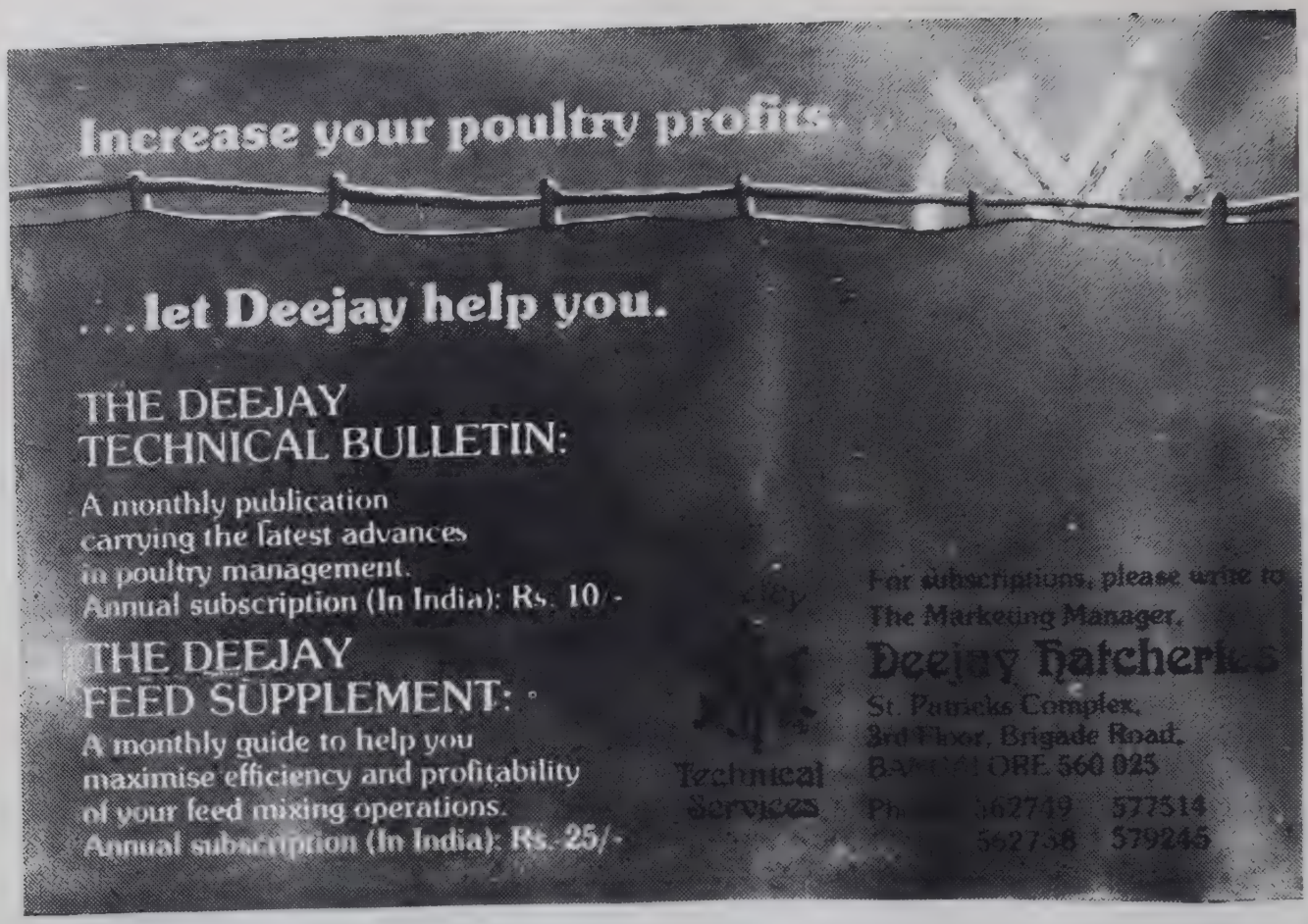
Alinam PF, Asham, Sonawari; Prop: Khan Noor Mohd (3,000 B).

Anna PF, 26 Zaripera Zoonimar, Srinagar; Prop: Ghulam Rasool (3,000 B).
Jan Broilers, Opp Srinagar Municiplity, Balgarden, Srinagar; Prop: Dr Fahmid Jan (3,000 B).
Jehlum Breeding Farm, Chattargam, Tehsil Chadura, Dist Badgam -013; Prop: Mir Najib Ullah (8,000 B).
Jehlum Poultries, 57 Gogji Bagh, Srinagar -008; Ph: 72396; Prop: Begum Ghlam Fatima (3,000 B).
Maqbool PF, Habak Crossing, Naseem Bagh, Srinagar; Prop: Majid Kaul (4,000 B).
Millat Poultry Breeding Farm, 54 Sector 2, Housing Colony, Chanapora; Prop: Hafiz Khan (4,000 B).
Mir Syndicate, Badu Bagh, Khanyar, Srinagar; Prop: Bashir Ahmed Mir (4,000B).
Moon Enterprises, Opp Sher Kashmir Agril Univ, Shalimar, Srinagar; Prop: Bhavan (4,000 B).
Muneer Ahmad Pampori, Lalbazar, Srinagar (4,000 B).
Naseem PF, Naseem Bagh, Srinagar; Prop: Bashir Ahmed (3,000 B).
Naya Kashmir PF, Danihama, Harwan, Srinagar; Prop: Ghlam Nabi (8,000 B).
New India PF, Danihama, Harwan, Srinagar; Prop: Mohd Sidiq (8,000 B).
Shalimar PF, Bagwanpora, Barzulla, Srinagar; Prop: Bashir Ahmed Sofi(4,000B).
Standard PF, Lalbazar, Srinagar; Prop: Riyaz Ahmed (3,000 B).
Valley PF, Clay Model, Bagat Barzulla, Srinagar; Prop: Sharifa Bano (4,000 L).

Karnataka

BANGALORE (Bglr) (Pin: 560---)

Akbar Farms, Medihalli, 10th Mile, Old Madras Rd, Bglr -049 (8,000 L).
Aman Farms, Uttarahally, Bglr -- Nazeer Ahmed (5,000 L).
Anil PF, 13 Sakalakannapa Lane, Kumberpet Cross, Bglr -002 -- Smt M Sulochana (4,000 L).
Anjanna PF, Shanboghalli, PO Bannerghatta, Bglr -- Ragavendra Rao (6,000 L).
Anupama Poultry, 24, Fort, Kengeri, Bglr -060 -- Ramachandra.
Aruna PF, Kenchanapahally, Singanayarnahally PO, Bglr -064 -- Kushallappa (8,000 L).
Ashvini PF, 'Ashvini Nilaya', Devanhalli Tq (1,300 B/week).
Azman Farm, Ahmed Sait Rd, Fraser Town, Bglr -005; Ph: 563523; M M Ameen-ul-Haq (15,000 L).
B Narayan Reddy & Sons, Mahadevapuram PO, Bglr -048 -- N Ravindra (4,000 L).
Bali PF, Devanahalli 562110, Bglr -- Smt Chitra Bali, V K Bali (20,000L,30,000B).
Bangalore Fort Farms Ltd, 27 Bilwardahalli Vill, Bannerghatta Rd, Gottigeri Post; Ph: 40300; Mg Dir: K S Akhilesh Babu, Ph: 63004; Tech Dir: P S Nanda Kumar, Ph: 62797 (50,000 L).
Bangalore Poultry & Dairy Farm, 14th Km Magadi Rd, Vishwaneedam PO, Bglr -091 (600 B/week).
Bright PF, Ramagondahalli, Whitefield, Bglr 562136 -- Smt T C Daniels(6,000L).
Chandra Prakash, Subramanyapuram, Uttarshalli Hobli, Bglr South (2,000 L).
Chandrashekar, B N, 83/1 Govindappa Rd, Basvanguddi, Bglr -004 (6,000 L).
Chennappa, H G, Hulukote, Magadi Tq (5,000 L).
Chinson PF, Nagarur Vill, Dasanapura Hobli, Nelamangula Tq -- B C Suman Chandra (5,200 L/batch).
Clover Farms, 50 Kothanur, Bagalur Rd, Bglr -077 -- Smt Patel (6,300 L/batch).
Deena Seva Ashram PF, 5th Main, Sriramapuram, Bglr -021; Ph: 33661 (2,000 L).
Desai PF, Solur Gate, Devarahalli 562110; Ph: 24033 -- N B Desai (24,000 L).
Dharam Kota Farm, Opp Bagalur Rd, Bglr -- Dr Vidyakar (12,000 L).
Dharmaram College Dairy Farm, Bannerghatta Rd, Bglr -029 -- Fr Kunnath; Ph: 40381.
Diamond PF, 156 Rastrayya, Vidyalaya Rd, Bglr -004; Ph: 606348 (4,000 L/batch).
Doctor's Farm, 664 III Block, 47th Cross, Rajajinagar, Bglr -- Maj H B S Sastry (2,000 L).
Dolphin PF, 59 Kothanur, Bagalur Rd, Bglr -077; Ph: 55756 -- Smt G C Patel (6,000 L).
Dr Murty's Farm, Bilvardahalli, Bglr -083; Ph: 42258; Prop: Dr Murty (18,000 L).
Fatima PF, Anchikirahally, [illegible] S A Kareem (6,000 L).
Friedel PF, 22 Ulsoor Road, [illegible]; Ph: 51776 -- A Friedel (5,000 L).
Furtado PF, No 39, 2nd Floor, Sunnapura Main Rd, Sudhamanagar, [illegible] -- Tim Furtado.
G P Farms, Gollara Palya, Kachamaranatti Post, Magadi Tq -- [illegible] (20,000 L).
Ganga Farm, 25th Km-stone, Mysore Rd, Bglr -118 -- Manoj Magdum (8,000 B).
Geeta PF, Devanhalli 562110 (10,000 L).
Gopi Farms, 19/, Olepalahalli, Kengeri,



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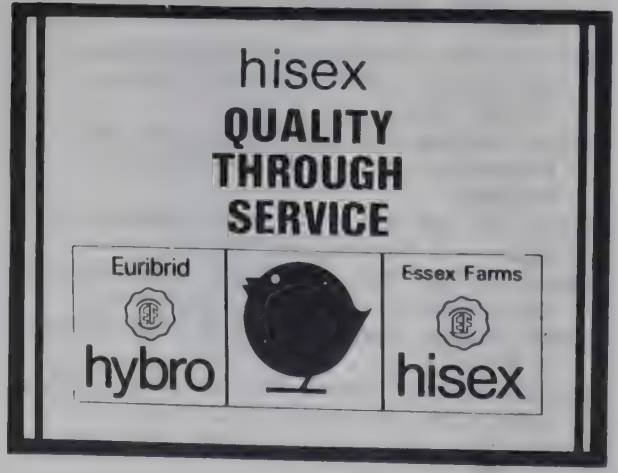
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Bglr -060 -- Ashwath (15,000 L).
Gowda, Thimme, 154 Jolly Masjid Rd, Collarpet, Bglr (9,000 L).
Gurukruppa Farm, Keremegalordoddi, Channapatna -- Channiah (5,000 L).
Highlay Farm, Jigni, Anekal Tq 562106; Ph: 578356; Mg Partner: Manohar J Shenoy (1,000 B/week)
Indra Farm, Devanahalli 562110 -- Smt Bab (15,000 L).
JJY Farm, Shanti Nagar, PB No 2725, Bglr -027; Farm: Bannerghatta Post -029 -- S K Mukherjee (12,000 L).
'Jagriti' Farm, Ramagondahalli, PO Whitefield 562136; Ph: 290 -- Smt Arundhati Raja, Jagdish Raja (5,000 L).
Jaya PF, Jakkur PO, Bglr North -064; Ph: 30855 -- K V Jairam.
Jayaram, R, Harapanahalli, Jigni Post, Anekal Tq (8,500 L).
Jyoti PF, 9/A New Mission Rd, Bglr -027; Ph: 228944 (5,000 L, 1,500 B).
K B Farms, c/o I C P Laboratories, Tumkur Rd, Yeshwantpur, Bglr -022.
Kalapurackal PF, Virgonagar, Bglr -049; Ph: 560049; Prop: K M Mohamed (4,000 B/week).
Kambegowda, Gollarappalya, Bachanahalli, Magadi Tq (9,000 L).
Kencheppa,Haragadda PO,Anekal Tq(4,000 L).
Kesavan, Smt Geetha, 6/2 Wara Rd, Cleveland Town, Bglr -005 (15,000 L).
Khan PF, Kumbulgode, 70 Mysore Rd, Bglr -026; Ph: 62589 -- Z H Khan (5,000 L).
Kogilu Farm, 37 Wellingdon St, Richmond Town, Bglr -025--B L Machado(12,000 L).
Komarla PF, E-31, 5th Cross, Shankarpuram, Bglr -049; Ph: 62797; Farm: 64/1 Chikalasandra Vill, Bglr -011; Ph: 41483, City off: 71305, 24834 -- P S Nanda Kumar, K Nagaraj (10,000 L).
Krishna Reddy, T, Doddenakkudni, Via HAL, near Maratha Halli, Bglr -017 (6,000L).
Laxmanswamy, Uttarahally, Bglr (7,000 L).
Mallur Farms, Kothanur, Bglr -076 -- M Ananda Rao (2,000 L).
Marinivasan PF, 352 Karyanapalaya, Hennur Rd, Bglr -005 -- T Govindan (10,000 L).
Maruthi Farms, 1476 Upstairs, South End "B" Cross, Jayanagar, 9th Block, Bglr -069; Mg Partner: Dr K Mohan; Farm: Kothanur Dinnae, Bannergetta Rd, PO Holy Christ Convent School (10,000 B).
Megshilp Farms, 23/A Rajmahal Vilas Extn, Bglr -006 -- Kishore Baarcha (6,000 L).
Menjunath PF, Heragadda PO, Anekal Tq -- H N Prakash (4,000 L).
Mermier Farms, Hebbagodi Post, Via Attibele 562107 (4,000 L).
Moeen Poultry, No 15 Dispensary Rd, Kalasipalayam, Bglr -001; Ph: 608432 -- Smt Naghath Begum Delvi (1,000 L, 6,000 B).
Munidas, Akkur, Near Channappatha, Bglr (12,000 L).
Munireddy, B, Jigni PO, Anekal Tq (6,000L).
Nandi Farms, Via D D Rd, Devanahalli Tq -- Chetan Desai (8,000 B).
Nango PF, 349 Nandagokula, Jayanagar, III Block, Bglr -011 -- Venkatappa (4,000L).
Narayan, J T, 113/2 West of Chord Rd, IV Stage, Bglr -044 (2,000 L).
Narayan Reddy, T, Jigni, Anekal Tq (500 B/week).
Nazir, c/o Rahim Khan, 355, I & III Block East, Jayanagar, Bglr -011 (4,000 L).
Nirmala PF, Chellekere, Bansinadi Post, Bglr -043 -- A Rajappa, 148/3 Seppings Rd, Bglr -001; Ph: 577837 & 578178 (15,000 L, 2,000 B).
Padmavathy PF, Hulkunte, Doddabalapur Tq -- Rangaswamy (8,000 L).
Pallegar Farms, 53 Ranga Rao Rd, Shankarpuram, Bglr -004 (2,000 L).
Palloti Nilaya, Krishnarajapuram, Hubli, Bglr -043; Ph: 50930 (5,000 L).
Pareeshit Farms, Opp Delicia, Devanahalli Rd, Doddajala -- Smt Prathima Shetty (4,000 L).
Pethi Breeding Farm, c/o Bharat Petroleum Dealers, No 1047/48, 1st Main, IV Block, Rajajinagar, Bglr -010 (1,500 B/week).
Poony PF, 561, 10th A Main, 5th Block, Jayanagar, Bglr -041 -- Lakshmana Swamy (10,000 L).
Raja PF, 12th Km Kanakapura Rd, Bglr -062; Ph: 40173. Office: No 12, 3rd Block, Shantiniketan, 9th Main, Jayanagar, Bglr -011; Ph: 40173; Prop: Smt Suneetha (18,000 L).
Rebello PF, Devanhalli Tq; Prop: P L Rebello, Ph: 71498 (1,000 L/batch)
Reddy, Anka, Harapanahalli, Jigni PO, Anekal Tq (5,000 L).
S A R Farm, Banasavadi, Bglr; Prop: S A Rasheed (20,000 B).
Sai PF, Vill Chokkarna, PO Doddsanna, Devanahalli 562110 -- B S N Raju (6,000 L).
Santa Farming Enterprise, Bagalur Rd, Kothanoor, Bglr -045 -- Dr (Smt) Mathews.
Seeta PF, Opp Bible College, Bagalur Rd, Bglr -- A Nataraj (6,000 L).
Shantala PF, 19th, 3rd Main, Hosenehalli, Bglr -040 -- C Narayan (11,000 L).
Shanth Farms, Kumbalgod -- T Venketswamy (6,000 L).
Shanthi Nilyam School PF, 12 Cornwell Rd, Bglr -025; Ph: 54151 (4,000 L).
Shetty, P V, 567 Palace Upper Orchards,

Bglr -006; Ph: 30077 (6,000 L).
Shoba PF, Begahalli Vill, Jigni PO, Anekal Tq, Bglr -- Satyanarayan (6,000 L).
Shobo PF, Thambuchetty Palya, K R Puram, Bglr -036 -- Subramaniam (7,000 L).
Siddeswara PF, Malagal, Magadi Rd, Bglr (12,000 L).
Sree Venkateswara PF, PO Barghatta, Anekal Tq -- V Muniswamayya.
Sreenivas PF, Arehally, Uttarahally, Bglr -- Ramachandra (5,000 L).
Sri Seddalingeshwara Enterprises, Vill Arehalli, Bglr South -- Sanghamesh H (3,000 L).
Sridhar PF, Thaverekere, Magadi Tq -- T G Anjanappa (3,000 L).
Sriramaiah, R, s/o Ramachandrappa, Haragadda PO, Anekal Tq (2,000 L).
Sunderaju, Smt Leelavathi, Bhoopasandra Vill, Agri Farm PO, Bglr -024 (6,000L).
Suvarna PF, Marenahallypalya, Bglr -041; Prop: D S Sreenivasa Setty (2,000 L).
Suvarana PF, Thambuchetty Palya, K R Puram, Bglr -036 -- Gopal (8,000 L).
Swapnaloka PF, Nandagokula, 349 Jayanagar, III Block, Bglr -011; Ph: 62126, 41870 -- G Venkatappa (3,000 L).
Sylvester Farm, Hennur Rd, Lingarajapuram Extn, Bglr -005; Ph: 55965 -- Frank Coelho (4,000 L).
Tanga PF, 81 D'Costa Square, Bglr -005 -- M J Koshy (8,000 L).
Thailiath & Sons, Hebbagodi Post, Via Attibele -- Jacob Thaliath (1,500 B/week).
Thekaekara Farm, Thekaekara House, Banaswadi, Bglr -043; Ph: 50701 -- Philip G Thekaekara.
Top-Notch PF, Bhakthi Nagar, Kamanahalli, PO Fraser Town, Bglr -005 -- C Balappa.
V G Farms, 1203, 26th Main, 35th Cross, 4th T-Block, Jayanagar, Bglr -011 -- Vishnu Vardhan (2,000 L).



Vinayaka PF, 201, V Block, Rajaji Nagar, Bglr -010 (4,000 L).
Walter, H G, 11th Mile Mysore Rd, Kengeri 562118 (5,000 L).
Z Z Farms, 441, II Cross Wilson Gardens, Bglr -027 (6,000 L).

BELGAUM (Pin: 590---)

Ashok PF, PO Honnapur 591115, Bailhongal Tq.
Aswani PF, PO Sambra, Belgaum Tq -- Babu Kokitkar.
Belgaum PF, Near State Bank, Tilakwadi Colony, Belgaum (2,000 L).
Belgaum Poultry Farmers Coop Society, Vet Dispensary Compound, Belgaum -001 (10,000 L).
G R PF, Kakkati Post, Belgaum -- G R Bhat (1,000 L).
Ganjanan PF, PO Honnapur, Bailhongal Tq 591115; Prop: Basavaraj S Dodamani (1,000 L).
Golden PF, Nichaniki 591115, Bailhongal Tq; Prop: A I Jamadar (1,000 L).
Jiji Poultry, 2288 Hattiholgal, Shahapur, Belgaum.
Karnataka PF, Marihal, Belgaum -167 -- S B Lolsar (2,000 L).
Mallasarja Poultry Farmers Coop Society Ltd, Kittur 591115 (7,000 L).
Pai PF, P B Rd, Kittur 591115, Bailhongal Tq; Ph: 31, 41; Prop: G G Pai (1,500 L).
Patil, Smt Shivagangavva C, At & PO Marihal, Belgaum 591167 (1,000 L).
Rachannavar, Mallappa B, Poultry Farmer, At & PO Karadiguddi, Tq Belgaum(1,000L).
Taliharkar, Narayana M, Mutga, Belgaum Airport (6,000 L).

BELLARY (Pin: 583---)

Gandhi, G M, Koppal Rd, Behind Medical College, Bellary -101 (10,000 L).
Gandhinagar Poultry Complex, Siruguppa -- G Gopal Rao, N Shyamsundar Rao, K Ranga Rao, P Raja Rao, D Basavaiah, Loganath Rao (2,000 L each).
Hill View PF, Hevambhavi, Bellary -- Prasad Babu (6,000 L).
Kondaiah, G, K H B Colony, House No 10A, Cowl Bazar, Bellary -102 (3,000 L).
Koteswara PF, Havinbhavi, Bellary -- K Mohan Rao (6,000 L).
Koteshwar Rao, G, 4A, XXV Ward, Cantonment, Bellary -102; Ph: 2801 (10,000L).
Krishna PF, Hevambhavi, Bellary; Prop: Sadanand Reddy (5,000 L)
Mohan Chowdry, Poultry Farmer, Hevambhavi, Bellary (10,000 L).
N S R K PF, Hevambhavi, Bellary -- Kishore Babu (5,000 L).
Nagabhushanam, Kolegal Rd, Bellary -101 (12,000 L).

Nageshwar Rao, K, c/o K K Ramasamy, Hevambhavi, Bellary (4,000 L).
Paduraja PF, Hevambhavi, Siruguppa -121 -- K Prabhakar Rao (2,000 L).
Parvathi PF, Hevambhavi, Siruguppa Rd, Bellary -- M Venkatappa (4,000 L).
Prasad Rao, T V S V, Hevambhavi, Bellary (6,000 L).
Quality PF, Royal Picture Palace, Bellary -101 -- Rashid Khan (30,000 L).
Radhakrishna Rao, B, Hevambhavi, Bellary (6,000 L).
Ragavaiah, V V, Poultry Farmer, Hevambhavi, Bellary (8,000 L).
Raghavendra PF, Koppalagal Rd, Chandinagar, Bellary -- Anoop Kumar (2,000 L).
Rajendra Prasad, Srinagar, PO Reravi, Siruguppa Tq (12,000 L).
Ram Farms, Hevambhavi, Bellary -- T Rama Seshu (8,000 L).
Ramakrishna PF, Hevambhavi, Siruguppa Rd, Bellary -101 -- V V Ragavaiah (6,000L).
Ravi PF, Hevambhavi, Siruguppa Rd, Bellary -101 -- R Sambasiva Rao (5,000 L).
Royal PF, c/o Royal Picture Palace, Bellary (10,000 L).
Samba Siva Rao, K, Poultry Farmer, Hevambhavi, Bellary (7,500 L).
Sathyanarayana, D, Poultry Farmer, Hevambhavi, Bellary (2,000 L).
Shekar Babu, Poultry Farmer, Hevambhavi, Bellary (6,000 L).
Shivavilas PF, Palace Grounds, Sandur -119; Ph: 6; Sec: Shafiulla.
Sreekanth PF, Hevambhavi, Bellary -101 -- B S Rama Krishna (7,000 L).
Srinivasa PF, Hevambhavi, Bellary -- S Balram Raju (4,000 L).
Subba Rao, Dr K, Srinivasa Nursing Home, Medical College Rd, Bellary -002 (20,000 L).
Tungabadra PF, Siruguppa -121 -- K Prasad, T Seshaiah, K Bhaskar Rao (2,000 L).
Varalakshmi, Smt P, c/o P Ravindranath Tagore, Hevambhavi, Bellary (3,000 L).
Venkateswara, Y, Poultry Farmer, Cantonment, Bellary (5,000 L).
Venkateshwara PF, Near T P N C, Siruguppa -121 -- M Venkateshwara Rao.
Venkataswami, Chickjogihalli-126(3,000 L).
Vijayadurga PF, Hevambhavi, Bellary -- K K Ramaswamy (20,000 L).

BIJAPUR (Pin: 587---)

Arakeri, B T, PO Benalkatti, Bagalkot Tq (3,000 L).
Belagal Bros PF, PO Guledgudd -203 -- M Y Belagal (5,000 L).
Jagadamba PF, Gudur 587202 (3,000 L).
Katwa, L C, Guledgudd -203 (2,000 L).
Modern PF, Shantiniketan, Mahalingpur -312, Bijapur; Mg Partner: Gaffar Y Yaksamsi (3,000 L).
Naga, B C, Guledgudd -203 (2,000 L).
Pishon PF, Sumaddi, PO Guledgudd -203; Prop: Prakash Soano (2,500 L).
Sangameshwar PF, Guladgudda -- Tejappa Javali (3,000 L).
Vijay PF, c/o G M Bilagi, Shantiniketan, Mahalingpur -312, Bijapur; Ph: 39 (PP); Mg Partner: Basavaraj M Shisol(1,000L).

CHITRADURGA (Pin: 577---)

Bharath PF, Nittuvalli Rd, Davangere -004; Ph: 3135; Prop: K C Subhas Babu (10,000 L).
Davangere Taluk Poultry Farmers Cooperative Society Ltd, Anagodu -556, Anekonda.
Javan Poultry, H Kalpanahalli, Honnur PO, Davangere Tq -- K G Shivanappa(1,000L).
Krishna Murali, Sri Venkateshwara Automobiles, Poona-Bangalore Rd, Davangere -002 (9,000 L).
RH PF, Hanumanthappa Bldgs, Poona-Bangalore Rd, Davangere -002; Ph: 3236 (8,000 L).
Sowmya Farms, Hanumanthappa Bldgs, Davangere -002; Prop: R H Padamja(10,000 L).
Sri Devi PF, Bapuji Vidyanagar, Davangere -005 (15,000 L).
Sri Padsri PF, Bapuji Vidyanagar, Davangere -005 (5,000 L).
Sri Poorna PF, Bapuji Vidyanagar, Davangere -005; Prop: N Purnachandra Rao (7,500 L).
Sri Rama PF, Bapuji Vidyanagar, Davangere -005 (7,500 L).
Sri Sreenivasa PF, Bapuji Vidyanagar, Davangere -005 (7,500 L).
Sri Vani PF, Bapuji Vidyanagar, Davangere -005 (7,500 L).
Udanga Rao, Poultry Farmer, Huddli Rd, Davangere (5,000 L).

COORG (Pin: 571---)

Kasvekeri Farm, The Farm Shop, Virajpet -218; Ph: 108 -- K M Mandanna (800 B).
Mercara Taluk Poultry Farmers' Coop Society Ltd, Mercara -201; Pres: P D Subbaiah.
Mudappa, A M, Chirala-Srimangal Estate, PO Chettalli -248, North Coorg.
Muddiah, K P, Bathiabane Estate, PO Chettahalli -248; Ph: 31.
Uday PF, Kambibaae Attur, Nallur Post, Via Suntikoppa -- K G Bhaskar (6,000L).

DHARWAD (Pin: 580---)

Alakatti PF, Haliyal Rd, Near Karnataka

Univ Cross, Dharwad -003--R C Alakatti.
Anugraha PF, Gandhinagar, Sirsi 581401; Prop: Nagaraj (1,000 L, 3,000 B).
Basel Mission Agricultural PF, Basel Mission Agril Trg Centre, Gadag 582101; Ph: 238 -- M H Thomas.
Dharwar PF, Near Savanur Nawab's Bungalow, Naryanpur, Dharwad -008; Ph: 80008; Partner: Prabhakar Sirsikar (6,000 L).
Dharwar-Hubli Taluka Poultry Farmers' Coop Society Ltd, Dharwad -008.
Garuda Farms, Nehru Nagar, Gadag Rd,Hubli -020; Prop: S Baig, Ph:66149 (5,000 L).
Hubli Farms, Karwar Rd, Hubli -024; Ph: 3039; Prop: Ashish Kumar (4,500 L)
Kalburgi PF, Opp Karnataka Medical Coll, Vidhyanagar, Hubli -021--S R Kalburgi.
Kalghatgi Poultry Farmers Coop Society, PO Tumarikoppa 581204 -- Fr Jacob (5,000 L).
Kaveri Farms, 340 Bhairidevarakoppa, Hubli 580021 (2,000 L).
Makandar, Shamash, Azad Rd,Alnavar 581103.
Matti Eggs Centre, P B Rd, Dharwad -001; Ph: 8995; Prop: B F Matti (1,000 L).
Mujavar PF, c/o B M Korpalice Rice Mill, Azad Rd, Alnavar 581103.
Mulla PF, Jumma Masjid, Janglipeth, Old Hubli -024 -- Riaz Arif Mulla (7,000L).
Munidas, D V Puram, PO Akkur, Chennapatna Tq -501 (6,000 L).
Nagina PF & Reraing Centre, Azad Rd, Alnavar 581103 -- M M Kittur.
Quality PF, 82 Laxmi Talkies Rd, Dharwad -001 (10,000 L).
Rajaguru, A P, V Puram, PO Akkur, Chennapatna Tq (2,000 L).
Rehbar Farms, Vill Tarihal, Hubli -- Girish Thakkar (10,000 L).
Roshan PF, c/o A M Kittur, Jaihind Rd, Alnavar 581103; Prop: Abdul Hamid (500 L).
Sahajiwan PF, Sadankeri, Dharwad -- S R Sabnis.
Shoukat PF, Near Head Post Office, Alnavar 581103 -- K M Badami.
Sirur PF, Karwar Rd, Hubli -024; Ph: 3389 -- M V Sirur (2,000 L).
Sri Gurukrupa PF, Near Five Doom Lights, M G Rd, Channapatna 575501; Prop: C Channaiah (7,500 L).

GULBARGA (Pin: 585---)

Orient PF, Station Bazar, Gulbarga -- Syed Hussain Nawab (5,000 L).
Ramachandra Rao, C, Mailoor Rd, Gandhi Gunj, Bidar -401 (1,500 L).
Rubsab, Syed, Station Bazar, Near Circuit House, Gulbarga (1,000 L).

HASSAN (Pin: 573---)

Bhyravi PF, Taumba-Devanhalli, Sakalashapura, Hassan -156; Farm: Vaja Mangala -- M Rajashekara Gowda (9,000 L).
S S PF, c/o Hilal Stores, B N Pur Rd, Hassan -201 -- Sulaiman Sheriff (4,000 L).

KOLAR (Pin: 563---)

Abdul Gaffar, Poultry Merchant, PO Nangli -132, Mulbagal Tq.
Appajappa's PF, Ankathattahalli, PO Bethamangala -116, Via K G F -- R Appajappa.
Kaverappa, c/o H Rama Gouda, Advocate, 9 Madras Rd, Kolar -101 (2,000 L).
Narayanappa, K, Teacher, PO Yidagur, Gowribidanur Tq 561208 (10,000 L).
Rajashekara, N, Yidagur Post, Gowribidanur Tq 561208 (2,000 B).
Sri Venkateshwara PF, Rampur 561210, Gauribidanur Tq -- Venkataravanappa(3,000L).
Venkate Gowdah PF, Hampasandia, Gauribidanur Tq (8,000 L).

MANDYA (Pin: 571---)

Chandra Shekar PF, PO Hankere, Mandya -- M B Rajanna (3,000 L).
Jayaram, B C, PF, Srirangapatna -438, Babarayanakoppal (4,000 L).
Latha PF, Shekar Nagar, Mandya -- M Samul (3,000 L).
Mudaliar & Co PF, Nanjundeswara Oil & Saw Mills, Nanjangud -301.
Sankaranada PF, Hanakane -- Borayya, H P Rudrappa (2,000 L).
Sree Laxmi PF, Near Tanga Vidya Peeta, Gajanur, Via Mandya -401 -- U K Vasappa (10,000 L).

MYSORE (Pin: 570---)

Anand PF, Yeraganhalli, Bannur Rd, Mysore; Ph: 24827 -- Anantha Ram (10,000 L).
Bhyravi PF, Chikkahalli, PO Vaiamangala, Mysore 571110; Prop: M Raja Shekara Gowda (12,000 L).
Boraiah, T, 137 X Main, Saraswathipuram, Mysore -009; Ph: 24705, 24860.
Brcilay PF, PB No 11, Hunsur 571105 -- P A Chaube (500 B/week).
Chelleggs PF, Hinekal, Mysore -005 -- G N Cheluvryaswamy (9,000 L).
Farm Shop, The, Virajpet 571218, Kodagu -- K M Mandanna (200 B/week).
Farmland, Huyilal Vill, Belvadi PO, Mysore 571186 -- Noor Mohammed (300 B/week).
Fresh Egg Centre, 366 Devaraja Market, Mysore -001--Amanuallah(3,300 L/batch).
Ganesh PF, 42/E Industrial Suburb, II Stage, Visweswaranagara, Mysore -008; Ph: 23777--M E Ganesh Rao (2,000 L).

Guru PF, 11th Main Rd, Saraswathipuram, Mysore -009--S K Chandrasekar(8,000 L).
Happy Hen's Farm, 5th Main, Paramahamsa Rd, PO Yadavagiri, Mysore -020; Ph: 25449, 26708; Partners: S A Imthiaz, M R Manickam (8,000 L).
Janatha PF, 20 Industrial Estate, No 20 Banimantap 'A' Layout, Mysore -015; Ph: 24883 -- M S Nagaraj (3,000 L).
Kamala PF, Vill Rayanakere, Mysore -008; Ph: 26421 -- B E Ravindranath(40,000L).
Kamala, Smt, 353/A, 6th Main, 15th Cross, IInd Stage, Gokulam, Mysore -002 (500 B/week).
Kannika PF, Yeraganahalli, Bannur Rd, Mysore -- Shankaranarayana Setty (5,000 L).
Kanyaka Farms, 2801/2 Hallavda Kelu, Mysore -001; Farm: Bannur-Mysore Rd, Mysore; Mg Partner: Shankaranarayana Setty (25,000 L).
Kashi Poultry & Dairy Farm, Shashi Nivas, B H Rd, Arsikere 573103 -- K V Prakash (6,000 L).
Kaveri Poultry Corpn, 30 Devraj Urs Rd, Ist floor, Mysore -001 (24,000 L).
Kenney Aquariums, 15 Calveris House, Residency Rd, Mysore.
Krishna PF, 143 Thanachikoppa, Layout, Saraswatiputnam, Mysore -009 -- K A Muddappa (6,000 L).
Mandana PF, Bugothaga Halli, Bannur Mysore Rd, Mysore (10,000 L)
Modern PF, Krishnaprasad, Lalithmahal Rd, Mysore -001 -- Smt Shafi Darasha (6,000 L).
Mysore Farms, 2746 Chamundi Extension, Mysore -004 -- M V Pushpendranath (9,000 L).
Mysore PF, Vill Rayanakere, Mysore -008; Ph: 24952, 27712 -- M V Thilakendranath (50,000 L).
Omkar PF, Kundanahally, Nanjangud Rd, Mysore; Ph: 21380 -- A Omkarappa (3,000 L).
Padmini Farms, 40 Udayangiri, Mysore -007 (4,000 L).
Pathange PF, Kaveri, 2636 II Main, V V Mohalla, Mysore -002; Ph: 20524 (off), 20013 (resi); Farm: Vill Bogadi -- Gopal Rao (12,000 L).
Pushpendranath, M V, Devayyanahundi, Heggadadeyana Kote Rd, Machanahalli PO, Mysore -008; Ph: 24448 (20,000 L).
Raja PF, 51-A, 6th Block, Thonachikroppa Layout, Saraswathipuram, Mysore -009 -- Rajendra Bhagwat (8,000 L).
Ramesh Babu, M P, 2738 Chandragupta Rd, Mysore -001; Ph: 21012; Farm: Yeraganahalli; Ph: 24936 (4,000 L).
Rani Farm Products, Broadway, Nanjangud 571301 -- Smt P L Maggie (400 B/week).
Ravi, s/o Varadaraj, Industrial Suburb, II Stage, Visweswaranagara, Mysore -008; Ph: 24671 (12,000 L).
Ravindranath, M M, c/o M H Abdul Saleem, Egg Merchant, 366 Devaraja Market, Mysore -001 (20,000 L).
S R Farm, T Narsipur Rd, Mysore -- Surilamba (4,000 L).
Saligrama, Dr Yoganna, Venkateswara Pharmacy, Sayaji Rao Rd, Mysore (4,000 L).
Sangam PF, 143D, 12th Main Rd, Thonelikopal Layout, Saraswathipuram, Mysore-009 (3,000 L).
Satchidananda Farms, No 16 Temple Rd, Jayalakshmipuram,Mysore-012 (3,000 L/batch).
Select PF, Vill Hinkal, Mysore -005 -- Cheluvaraja Swamy (12,000 L).
Shekar PF, 368/1 New Sayaji Rao Rd, Mysore -004; Prop: M R Jayasekhar (1,200 L).
Shivana, H S, 29, 5th Main, Jayalakshmipuram, Mysore -012; Ph: 21042; Farm: Belawadi (4,200 L/batch).
Shivaprasad, P N, Kudanahally, Nanjangud Rd, Mysore (12,000 L).
Singh PF, Nagamala Rd, Yelwala Post, Mysore -- Vijay Singh (6,000 L).
Sri Venkatesha Krupa PF, Opp Seico Mfgs, Industrial Suburb, II Stage, Mysore -008; Ph: 22828 -- Smt Krupalini (10,000 L).
Thomasons, Power House Rd, Madikeri 571201 -- S D'Souza (400 B/week).
Tibetan Coop Society Ltd, Luggung Samoreting, Gollarohdahalli, PO Bylakuppe, Mysore (7,000 L).
Uday PF, No 132, 3rd Main, Jayalakshmipuram, Mysore -- M N Nagaraj.
Vasumathy PF, Thonachikoppal, Saraswatipuram, Mysore -009 -- B Devaraje Urs (2,000 L).
Venkatesh Krupa PF, 5/A Jayalakshmipuram, Golulam Rd, Mysore -012 -- Smt Kupalini (9,000 L).
Vijaya PF, 41-A, Industrial Suburb, II Stage, Mysore -008 -- K Varadrajan (12,000 L).
Vijaya PF, Yeraganahalli, Bannur Rd, Lalithadripuram Post; Ph: 21012, 24936 -- Padmanabha Setty (4,000 L).

NORTH KANARA (Pin: 581---)

Shaikh, Z M, PF, National Highway, PO Kumta -343 (Karwar).
Vinu PF, PO Siddapur -355, Karwar -- Vinu Hegde (2,000 L).

RAICHUR (Pin: 584---)

Bhasker Rao, K, Tungabadia Complex,

Bellary (6,000 L).
Gangavati Poultry Farmers & Milk Coop Society Ltd, Gangavati 583227 (1,000L).
Hypro Farm, Opp Agri Institute, Raichur -101 -- Srikant Kakkeri (1,500 L).
Kushnam Raju,D,Yeramarus,Rakhur(27,000 L).
Laxmaih, L, Tungabadia Complex, Siraguppa (6,000 L).
Radhika PF, Sripuram Junction, Gorebal Camp, Sindhanoor Tq -- Rathaiah D (2,000 L).
Rama Rao, K, Gorebal Camp, Sindhanoor Tq -128 (12,000 L).
Seshagiri Rao, K, Sri Venkateshwara Camp, Saligondi Post,Sindhanoor Tq(18,000 L).

SHIMOGA (Pin: 577---)

Padmavati Poultry, B H Rd, Maruthi Nagara, Bhadravathi -301 -- C B Suresh Babu (2,000 L).
Preetam PF, Basavangudi, Shimoga -201 (1,000 L).
Vasappa, U K, Venkateswara Nilaya, Hospital Rd, IInd Cross, Shimoga (9,000 L).

SOUTH KANARA (Pin: 575---)

Adyanathaya, Ashok, c/o Mohan Adyanathaya, Shanthi Nekathan, Karkala 574104 (2,000 L).
Arla Poultries, Porkola Post, Arla, Bantwal Dk; Ph:32 (Nadaga) (2,400 L/batch).
Century Farms, PO Shivalli, Via Kunjibettu 576102, Udupi Tq (Dk); Mg Partner: B Rajarama Bhat; Ph: 8847 (6,000 L, 12,000 B).
Dastagir Baig, D No 20-1-81, Hazinuddin Rd, Mangalore (1,000 L).
D'Souza, Felix, Neermarga, Bus Stand, Mangalore -005; Ph: 22321 (3,000 L).
Elvy Farms, Kulshekar, Mangalore -005; Ph: 21491; Prop: Smt Molly Pinto (1,000 L).
Eskay PF, Manzalpudupa, PB No 15, Putur 574201 -- Smt Sarath Kumari, Ph: 284 (4,000 L).
Fernandes, F A, Lalbagh, Mangalore -003; Ph: 21048 (1,000 L).
Finlay Farms, Hiriadka 576113 -- K Balakrishna Kamath (500 B/week).
Hen Nest Farm, Kulshekar, Mangalore -005 -- Pratap Chandra Shetty (6,000 L).
Highland Farms, PB No 510, Falnir, Mangalore -002; Ph: 5060 (off), 4183 (resi) -- Smt Maisie Saldanha (4,000 B).
Hill View PF, Vill Marakada, Mangalore -008--A P J Castolino (700 L, 1,200 B).
Jayanthia Farm, Kodambdo House, Suratkal 574158 -- K Jayanthia.
Kalpana Farms, Kalpana Rd, Namkanady, Mangalore -002; Ph: 24052; Prop: N F Pinto (2,500 L).
Kamath, K Visvanath, Kagal House, Gopalkrishna Temple Rd, Mangalore -001; Ph: 3801.
Katipalla Rehabilitation Society, Infants Marks Church,Katipalla 574149(4,000 L).
Mangal Dairy & PF, Sultan Battery Rd, Boloor, Mangalore -006 (1,000 L).
Mukka Welfare Society (Regd), Jyothi Mandir, Mukka 574177; Ph: 8309 -- Rev Fr Vincent Martin, Ph: 7309 (50,000 L).
Narayana, S, Saraswath Colony, Someshwar, Kotekar 574152 (1,000 L).
Pereira, Rev Fr Theophil, Dayalbagh, PB No 1, Ujire 574240 (2,000 L).
Pic 'n Egg Farms, Max Villa, Mangalore -002; Ph: 27624 -- Petric Pasquitha.
Pinto, N F, Kalpana Rd, Kankanady, Mangalore -002; Ph: 24052 (2,000 L).
Pratap Chandra Shetty PF, Bikkarmatta, Mangalore -005; Ph: 28779 (3,000 L).
Punja, Yathish, Maddyar House, Maddyar, Kotekar 574152 (1,500 L).
Rai, Balakrishna, Saraswath Colony, Kotekar 574152 (1,500 L).
Ramesh Bhandary,Rambai Compound, Urva, Mangalore -006.
Ramesh Farms, Kulai, Via Suratkal, Mangalore 574196; Ph: 7525 (Mangalore);Prop: Ramesh Shetty (4,000 L, 12,000 B).
Rebello Farms, Maravante PO, Kundapura Dk 576261 (1,000 B/week).
Shenoy, P M, Krishi Hithulu, Near Urea Market, Mangalore -003; Ph: 21733 (500 L, 500 B/week).
Shetty, Dr Sukananda, 'Aerebail', Gurpur 574145; Ph: 90 (3,000 L).
Somnath Farms, Behind Vamanashram Bldg, G H S Cross Rd, Mangalore -001; Ph: 23451; Farm: PO Kotekar 574152; Ph: 6451 (Ullal) -- Kiran Dutt U R (3,000L).
Sundersons PF, Manzalpudupa, Putur 574201; Prop:Sanjive Kumar; Ph: 365(500 B/week)
Valerian, Noronha, Jos-Din Villa, Bondel, Mangalore -008; Ph: 7576 (1,000 L, 400 B/week).
Veekay Farms, "Thej-Sunder", Mary-Hill, Mangalore -008; Ph: 23830, 24840; Prop: Kasturi Marla (5,000 L, 2,000 B).
Veigas, Dr P N, Marnamikatya, Mangalore -002; Ph: 22334 (1,000 L).
Veronica D'Souza, c/o Francis D'Souza, 2/234 Katipalla 574149, Surathkal, Mangalore (1,000 B/week).
Vikaram Broiler Farm, Thej Sunder Marry Hill, Mangalore -008 -- T Krishna Marla (200 B/week).

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Kerala

ALLEPPEY (Pin: 689---)

Ambujakshi, L Kandathil Parambil, Meku Veedu, PO Angadeel, Chengannur.
John, T V, Thevarthundivyl, Pullad -548.
Kerala Intensive Poultry Development Association, St Joseph's Convent, Charumoodu 690505 (2,000 L).
Nazareth Ashram, Kallisseri -124; Sec: K C Kuruvilla.
Varghese, C T, Chekkatu House, Kuriyanoor -550 (350 L).
Xavier, Bruno, Vachaparambil, PO Pulinkunnu 688504.
Zachariah, Smt Annamma, Chakkaparambil House, Thittamel, Chengannur -121.

CALICUT (Pin: 673---)

Ashok Medicals, 20/273, Main Rd, Badagara -101.
Hilltop Farms, c/o Smap Engg Co, University Post, Malapuram -635.
Karunakaran Nayanar, V, Thazhathi Veedu, PO Kallyad 670593.
White Shell PF, Ashok Mandir, Near Railway 4th Gate, Nallaham, Calicut -001; Prop: K Asokan.

CANNANORE (Pin: 670---)

Karunakaran, T, Empress Bldg, Chovva -006.
Koodali PF, Koodali -592 -- Sri Kumar Devdas, Haridas (1,000 B).
Laxman PF, Kanhangad -315 (5,000 L).
Nirmala Craft Training Centre, Pelathara.
Payyanur Block Poultry Breeders Cooperative Society Ltd, No C 814, PO Vellur 686501, Via Payyanur (5,000 L).

ERNAKULAM (Pin: 682---)

Ambrosis, Capt (retd) C P, Chullikattil House, Kizhakke Angadi, Angamali 683572 (800 L, 300 B).
Andrews, K J, Kottapurathil House, Moolamkuzhi, Cochin -002.
Cherian Thankachan, Kottoor House, Valiadathu, Udayamperoor -307 (1,000 L).
Ex-Servicemen's Food Farm, The, Kakkanad, Cochin -021 -- Commander Jolly(3,500L).
G B Corporation, XXLII/137, Ayyappankavu Rd, Ernakulam, Cochin -018.
House of Providence, Chittoor Rd, Ernakulam -018 -- Sr Lia.
J R PF, House No 108, Udayamperoor -307 -- S Krishnan Nair (4,000 L & 2,000 B).
John, C, Kottoor House, Udayamperoor -307 (4,000 L & 2,000 B).
John, K K, Kottoor House, Udayamperoor -307; Ph: 50743 (3,000 L).
Lakshmy PF, PO Okkal; Ph: 394 (PBR) -- R Sugathan (5,000 L).
Mathew, Varkey, Panchayat Mamber, Angilekkal, Vazhathara, Udayamperoor -307 (700 L).
Mini PF, Thamsa, Civil Line Rd, Palarivattom, Cochin -025 -- Smt C K Nalini (2,800 L).
Minu PF, Kottoor House, Udayamperoor -307.
Moni PF, Manjoor House, Perumbavoor 683542; Ph: 348 -- M Luke Rajan (2,000 L).
Ravindran Nair, PF, Cherupushpam Studio Ltd, Cherupushpam Bldg, Shanmugam Rd, Ernakulam, Cochin -011.
Vargheese, P P, Pynadath House, Maikavu, Angamali 683572 (1,000 L).

IDDUKKI (Pin: 686---)

Benny's PF, Kolani, Thodupuzha 685584 -- Benny A Parayil (1,500 L, 2,000 B).
Dharmagiri Convent, Koothattukulam -662 (350 L).
Iype Jose PF, Kurivithadam, Perumpalloor, Muvattupuzha -661 (2,000 L).
Peter, Rev Fr, Near High School, Pampakuda -667; Ph: 62.
Ravindram PF, Koothattukulam -622 -- S Ravindram (1,000 L)

KOTTAYAM (Pin: 686---)

Pillai, K G, Nalloor, Valady, PO Kumaramkari, Chenganacherry.
Ramakrishnan Nair, Kakkattu Rama Extn, Perunnai West, Perunnai Post, Chengannacherry -102.

QUILON (Pin: 690---)

Kala PF, PO Athinad, Karunagappally -518 -- D Dharmarajan (1,000 L).
Poultry Breeders Coop Society, PO Kuzhithura, Karunagappally -518.
Uthara PF, Ravi Vilas, Koonayil School Jn, Paravur 691301 -- Radhakrishnan C.

PALGHAT (Pin: 678---)

Aashoo Cattle & PF, 8/142 J M Rd, PO Ponani 679577 -- V T Kunhi Mohamed.

TRICHUR (Pin: 680---)

Antony, T K, Vylathur PO, Post & Tq Nahamanghat 679563.
Appukuttan, M K, Mundoly House, PO Kanjirapally 686507, Via Chalakudi (2,500 L).
Farm India, XXVII/174, Krishna Lane, Chembukavu, Trichur -001 -- Dr V R Ashokan.

Jayshree PF, 13/198 Trichur Rd, Irinjalakuda -121.
Sree Valliamma PF, IX/103, Irinjalakuda -121 -- T K Kesavan.
St Xavier's PF, Clarist Convent, PO Kadukutty, Via Chalakudi.

TRIVANDRUM (Pin: 695---)

Elegant PF, Via Balaramapuram, Punnakulam Post; Prop: K T Abraham.
Hilcock Poultry, 25/544 Villa Nazareth, Rishimangalam, Trivandrum -001.
Kerala Farms, Thycaud, Trivandrum -014; Ph: 62309 -- S Krishnamurthy (1,500 B)
P G PF, PO Amaravilu 695122, Kulataamal; Prop: Gopan (100 L, 1,000 B/week).
Ramadevan Nair, Dr K, Lakshmy Pharmacy, Kodappankunnu (600 L).
Sun Rise PF, Mannamoola, Perurkada, Trivandrum -005.
Swathishta PF, L-2 Kuleena, Jawahar Nagar, Trivandrum -003; Ph: 62454; Prop: N Sreekumar; Farm: Nagaroor PO, Attingal; Ph: 45 (5,000 B).

Madhya Pradesh

BALAGHAT (Pin: 481---)

Gulmohar PF, Girls College Rd, Balaghat -001 -- Pratap Ramani.

BETUL (Pin: 460---)

Singh, Smt N B, A/6 Railway Bungalow, Sadar Betul -001.

DATIA (Pin: 475---)

Super PF, Gwalior Rd, Civil Lines, Datia -661 -- Smt A B Kidwai (2,000 L).

DURG (Pin: 490---)

Abhinav PF, Dixit Colony, Kosa Nagar, SAF Lines, Bhilai -022; Ph: 3127 -- Prakash Deshmukh (1,500 L).
Ajay PF, PO Supela Bhillai -- T C R Gangadharam.
Chandrakar PF, Durg 491007 -- Chandra Kumar (4,000 L).
Dalip PF, Ganjpara, Durg -- Dalipchand.
Khalsa PF, 1/B Shantinagar, PO Vaishyali Nagar -- Baldev Singh Tak.
Narmada PF, 12B/26 Sector 10, Bhilai; Farm: Borsi Bhata, Durg -- Anandjit Singh (6,000 L, 2,000 B).
Raju PF, Vill Naya Tarya, PO Dhore, Bhilai -- K K Bhalla (3,000 L).
S K PF, Syam Kutir, Baldeo Bagh, Rajnandgaon 491441 -- Prabhat Mohbe (2,000 L).
Satish PF, Navatanya, PO Dhore, Bhilai -- Satish Chandra (3,000 B)
Singh PF, Vill Navataria, Post Dhore (2,000 L).
Vivek PF, Vill Navataria, 8th Km Nandani Rd, PO Jamul Cement Works -024, Bhilai; Ph: 5861 -- P N Arora (9,000 L).
Waswani PF, Priman Industries, Nandini Rd, Bhilai -001; Farm: Naya Tarya, PO Dhore -- R K Waswani (2,500 L).
Yadav, Arun, Shanti Bhavan,PO Kohka,Bhilai.

INDORE (Pin: 452---)

Modern PF, Satish Bhavan, 2A Prem Nagar, Indore.
Shailza PF, Mahavir Marg, Gandhinagar, Indore -005; Prop: Smt Shail Saxena (1,200 L).
Simran Poultry, 579 Khatiwala Tank, (near Microwave Tower), Indore -001; Partner: Harender Bhatia; Ph: 62240, resi: 60808 (15,000 B).
Singh Poultry, Vill Kalode Kartal, 10 Km Indore-Khandwa Rd, Indore; Prop: Gurdeep Singh Bhatia; resi: 9-A Prem Nagar Colony, Indore; Ph resi: 60969(6,000 L).

JABALPUR (Pin: 482---)

Ashok Anand PF, 19 Mission Press Compound, North Civil Lines, Jabalpur-001(4,000L).
Daroowala, R S, Station Rd, Deori, PO Panagar 483220 (2,000 L).
Green Poultry, 1599 Napier Town, Jabalpur -001; Ph: 23912 -- Ajay Gaikwad(3,000L).
Hariesh PF, Bungalow No 6, 3rd Bridge, Jabalpur Cantt -001--B B Verma(3,000 L).
Hundal, Col J S, PO Temor Bhila, Gora Bazar, Jabalpur Cantt -001 (2,000 L).
Jacob PF, Mission Press Compound, Civil Lines, Jabalpur -001; Farm: Vill Saliwada -- Smt H R Jacob (6,000 L).
Joy Poultry, 848 North Civil Lines, Jabalpur -001; Ph: 22411 -- B Choudhuri.
Kanu PF, 1110 Napier Town, Jabalpur -001; Ph: 24301; Mg Partner: Haridev Agrawal (5,000 L & B)
Paragon Poultry, 245 Napier Town, Jabalpur -001; Ph:20057--Prabhat Varma(10,000 L).
Sankar, Sitaram, 1265 West Kariya Phater, Near Champur, Jabalpur (2,000 L).

RAIPUR (Pin: 492---)

A-1 PF, Jail Rd, Raipur -001; Ph: 28082, 23482; Farm: Labandih -- P S Behl (12,000 L).
Babu Khan, Vill Charoda, Dharsiva, Raipur -001 (2,500 L).
Biswas, P C, News Paper Agent, Mana Camp, Raipur (2,000 L).
Chandanidih PF, Tatiband, Raipur -001 -- Somabhai Patel (3,000 L).

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		9-20 wks	98%
		21-64 wks	93%
Body Weight of	Females	20 - wks	2000 gms
	Males	20 - wks	3000 gms
	Females	64 - wks	3500 gms
	Males	64 - wks	4500 gms
Feed consumption upto (chick prod. point)		30 - wks	20.0 kg
Average per bird per day in laying period			150 gms
150 gms			
Laying	Age at 5% production	23 wks	
	Age at 50% production	28 wks	
	Age at peak	32-33 wks	
Peak production		.....	83%
Hen housed production upto 64 wks		.....	150 eggs
Hatching		Settable eggs	93%
Hatching eggs per hen housed		.....	140 eggs
Average overall hatchability		.....	83%
Peak hatchability		.....	94%
Good chick at hatch		.....	98-99%
Salable chicks per hen housed		.....	114
Chicks Colour		.....	White
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PUJA ARTS

Chourasia, Shekhar, New Shantinagar, Raipur (2,000 L).
Deshpande, Smt S, Karbala Society, Raipur -001; Ph: 23394; Farm: Hirapur (4,000L).
Jaishree PF, Telibanda, Ravigram, Raipur -001 -- Smt Suman Brahmankar (20,000 L).
Jayalaxmi PF, New Aerodrum Rd, Telibanda, Raipur -001; Prop: Manohar Kore(1,000L).
Khan's PF, Sundernagar, Mahadeo Ghat Rd, Raipur -001 (2,000 L).
Majid PF, c/o A Majid A Hamid, Eggs Merchant, Gole Bazar, Raipur -- A Majid Khan (2,500 L).
Modern PF, 10/109 Old Hindu High School, Kamasi Para, Satti Bazar, Raipur -001 -- Madhukar Wagh (10,000 L).
Nirmala PF, Telibanda, Ravigram, Raipur -001; Prop: Smt Nirmala Bhendarkar (1,500 L).
Novel PF, Telibanda, Ravigram, Raipur -001 -- M K Nayar (4,000 L).
Sai PF, Dangania, Mahadeo Ghat Rd, Raipur -001; Prop: Smt Saroj Tidke; Mgr:Sanjay Tidke (650 L).
Sakure PF, Sarona, PO Tatiband, Raipur-001; Ph: 27311 -- Dr Harish Sakure (6,000 L).
Samuhik Murgi Palan Kendra, PO Dharsiva, Raipur (3,500 L).
Sandhya PF, 12 Panchsheel Nagar, Raipur -- Achin Banerjee (8,000 L).
Sareen PF, Jail Rd, Raipur -001 -- Ravi Sareen (4,000 L).
Sheela PF, New Aerodram Rd, Telibanda, Raipur -001; Prop: Smt Sheela Brahmankar (2,500 L).
Star PF, Anand Nagar, Raipur -001 -- Harcharan Singh (2,500 L).
Tapas, Smt Mangala, New Shantinagar, Raipur -001; Farm: Hirapur (4,000 L).
Trimurthy PF, PO Deopuri, Dhamtari Rd, Raipur (4,000 L).
Veekay PF, Shankar Nagar, Raipur -- V K Khosla (4,000 L).
Vikas PF, 22 Panchsheel Nagar, Raipur -- V K Marwaha (3,500 L).
Vishal PF, 3/774 Shantinagar, Raipur -001; Prop: Harbhajan Behl (4,000 L).
Yogendra Narayan, Mahadeo Ghat Rd, Dangania, Raipur -001 (2,000 L).

RAJNANDGAON (Pin: 491---)

Dhawlay PF, Stadium Rd, Rajnandgaon -- Vijay Dhawlay.
Shalinam PF, PO Somani -- Lal.

SEHORE (Pin: 462---)

Asha Niketan Agro-Indl Trg Centre, Private Sector E-6, Bhopal (1,000 L).
Bhopal Glues & Chemicals Pvt Ltd, Jahangirabad, Bhopal -008; Ph: 63544, 63533 -- Iftakhar Ahmad (1,000 L).
Mubarakpur Agro PF, Vill Mubarakpur, PO Parwalia Sarak -035 -- Mansoor Mohd Khan (3,000 B).

UJJAIN (Pin: 465---)

Mahesh Bhargava PF, Yugraj Bhavan, Freeganj, Ujjain -006 (3,000 L).
Poultry Centre, Mullapura, Ujjain -006 -- Ramesh Chavan (2,500 L).

Maharashtra

AHMEDNAGAR (Pin: 414---)

Gaekwad Farms, 15 Ambika Nagar, Kedgaon, Ahmednagar -001; Farm: Vill Chas -- Moti Hemandas Thadani (5,000 L).
Thorat PF, Puntambe, Ahmednagar (25,000 L).

AKOLA (Pin: 444---)

Akola Zila Kukkut Vikas Sahakari Sanstha Ltd, Murti Japur Rd, Krishinagar, Akola -001; Mgr: Dr N R Patil (5,000 L).
Shanker PF, Old Ice Factory, 87 Talav Rd, Khamgaon -303 -- Dileep K Chavan.

AMRAVATI (Pin: 444---)

Jay Kay Farm, Vill & PO Sirasgaon (Korde) -904, Via Chandur; Ph: 61, Gram: Sakas -- Jayendra Korde (2,000 L).
Kersi PF, Near Tata Mercedes Garage, Badnera Rd, Amravati -601.
Nitin Poultry, Deorankar Nagar, Badnera Rd, Amravati -601 -- V A Warkhedkar.
Sunder PF, Kacheri Rd, Amravati -601 -- S S Bhatnagar (2,500 L)
Vikas PF, Bhondu Garden, Badnera Rd, Amravati -601.

AURANGABAD (Pin: 431---)

Friends PF, Kagajipura, Aurangabad (6,000 L).
Marathwada PF, Mit Mitta, Ellora Rd, Aurangabad -- Dr Bari (20,000 L).
Murgeswar Farm, Opp Hotel Rama International, Chikalthera, Aurangabad -- Dr Guru Sawhney (1,000 L, 4,000 C).

BHANDARA (Pin: 441---)

Newlays PF, Tumsar Rd, Rly Qtrs, Near Rly Station, Bhandara -904.

BOMBAY (Bmb) (Pin: 400---)

Afsons Farm Products, Ludwin Cold Storage, 2nd Hasanabad Rd, Santacruz (W), Bmb -054; Ph: 6146083; Farm: Thane -- A Afonso (20,000 B, 5,000 L). See Thane.
Al-Husain Farm Products (P) Ltd, 42 Ambekar



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Marg, Wadala, Bmb -031; Mg Dir: S Kumar, Ph: 8822840, Gram: Staticelec; Dir: Mukhtar Husain, Ph resi: 6120121.

Deccan PF, 261 Swami Vivekanand Rd, Bandra, Bmb -050; Ph: 291329, 355171 & 537220 -- A H Tapia (100,000 L). See Pune.

Fali PF, 504 Belmont, Lokhandwala Complex, 4 Bunglow's, Andheri Varsova Rd, Bmb -058 -- Anis S Gandhi (30,000 B). See Thane.

Fields & Feathers Pvt Ltd, Opp Sewri Rly Station (East), Bmb -015; Ph: 8821644 -- Mg Dir: A G Merchant, H A Tyeb (15,000 L). See Raigad.

Gautami Kedar Trust, c/o D N Desai, Myfair Bldg, Churchgate, Veer Nariman Rd, Bmb -020 (40,000 B).

Gaylayers Poultry & Farm Produce, Sisters Bungalow, H K Bhabha Rd, Bandstand, Bandra, Bmb -050; Ph: 532064 -- Smt T K Pedder (1,25,000 L). See Pune.

Hilltop Farm, Ramon House, 6th floor, 169 Backbay Reclamation, Bmb -020; Ph: 221714, Farm: 596076, 501426; Prop: Arjun Bulchandani (20,000 B).See Thane.

Jagmina Farms, Wallace Flour Mills Compound, Shiv Das Champsi Marg, Mazgaon, Bmb -009; Ph: 860271, 862005; Partner: Ms Bina P Vissanji. See Raigad.

Karla Farms, Alta Bhavan, 532 Senapati Bapat Marg, Dadar, Bmb -028; Ph: c/o 4227441. See Pune.

Kaypee Farms, 64-C Eby Castle, Mohd Ali Rd, Bmb -003; Ph: 327382; Partners: K C Puri, Mrs R R Puri, P B Pathak, R B Pathak. Farm: Raigad (35,000 B).

Kinn Poultry, Joseph Haven, 11th Rd, Chembur, Bmb -071 -- Smt Claire Dalgado (50,000 L). See Raigad.

Marshall PF, Apeejay Chambers, 5 Wallace St, Bmb -001; Ph: 264506; Partners: J N Marshall, S Joglekar (35,000 L). See Nashik.

Merchants PF, 54 Agiary Lane, Fort, Bmb -001; Ph: 268928, 548209 -- Md Hussein Merchant (100,000 B). See Thane.

Nest-O-Eggs PF, Panorama, 203 Walkeshwar Rd, Bmb -006; Ph: 8223410 -- Mrs Uma Mehta, Sanat Desai (40,000 L, 40,000 B) See Pune.

Nezhuringal Farm, Plot 54-A, Friendship, 23rd Rd, T P S III Bandra, Bmb -050; Ph: 535783 -- N P Lazarus. See Raigad.

Pawansheel Poultries, Ramon House, 6th floor, 169 Backbay Reclamation, Bmb -020; Ph: 221714; Mg Partner: Arjun Bulchandani, Ph resi: 8122680 (20,000 L, 20,000 B). See Pune.

Prabhat Poultry, 14 Sushil Veer Savarkar Marg, Shivaji Park, Bmb -028; Ph: 451103; Mgr: M B Desai (75,000 L, 25,000 B). See Raigad.

Prabhavi PF, 30 Ambekar Nagar, Parel, Bmb -012; Ph: 443492 -- L K Vichare(8,000 L, 2,000 B/month). See Thane.

Purav PF, Block No 306, Navin Asha, Dadasaheb Phalke Rd, Dadar, Bmb -014; Ph: 440068 -- P R Purav (15,000 L,10,000 B). See Raigad.

Shree Sai Krupa Farms, 307 Tardeo Rd, Kerawala Bldg, 1st floor, Nana Chowk, Bmb -007; Prop: Bahadur M Bhamgara. See Thane.

Silkeen Farms, 527 Arun Chambers, J Dadajee Rd, Bmb -034; Ph: 391791; Mg Partner: R J Mukhi; Tech Consultant: P V Gidwani (35,000 B).

Silver Oak Farms, 303 Cawasji Hormusji St, Bmb -002; Partners: Parvez Damania, Vispi Damania (2,000 B/week).

Star PF, I/6 Greenfields, St Antony's Rd, Bmb -071 -- P J Thomas (5,000 L).

Star PF, Mangla Bldg, Ram Bag Line No 6, Kalyan 421301, Via Bmb -- B L Gaokar.

Sunshine PF, 8 Amrit Kutir, Behind Police Lines, Andheri (East), Bmb -069.

Udaysagar PF, Meghmala, Liberty Garden, Road No 3, Malad (W), Bmb -064 -- J B Desai.

Veekay Farms, Agarwal Estate, 139 S V Rd, Jogeshwari (W), Bmb -102; Ph: 572496; Sr Partner: Roshan Lal Sawhney (70,000L, 50,000 B). See Pune.

Vighneshwara PFs, Cama Bldg, 24/26 Dalal St, Bmb -023; Ph: 271964, 272602; Mg Partner: Smt Sudit Parekh (75,000 L). See Pune.

Vishaka PF, Flat No 8, Fair Lawn, Veer Nariman Rd, Bmb -020; Ph: 295979 -- Smt Vishaka Chaudhry (15,000 B)

Zarina PF, Mankhurd House, (Chembur), Sion-Trombay Rd, Bmb -088; Ph: 524865 (5,000 B).

BULDHANA (Pin: 443---)

Sudarshan Farms, Narayanpur, PO Neemgaon, Via Nandura; Ph: 80 (Nandura).

DHULIA (Pin: 424---)

Nu-Line Farm, Pardesi Bungalow, Malegaon Naka, Bmb-Agra Rd, Dhulia -001 -- P G Pardesi (1,000 L & B).

JALGAON (Pin: 425---)

Raj Farm, Anturliphata, Pachora 424201 (1,000 L).

KOLHAPUR (Pin: 416---)

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Sahyadri Kukkut Palan Sahkari Sanstha Ltd, Warnanagar -113; Ph: 65, 97; Chmn: Ganesh Bapuji Joshi; Mgr: Dr A K Dhumal (25,000 L).

Savila PF, New Pargaon, Hatkonangak Tq -- Mrs V S Magdum.

Shri Warna Kombadi Sahakari Sangh Ltd, Warnanagar -113; Ph: 35; Chmn: V R Patil; Mgr: Dr G N Kininge (45,000 L).

Trimurti PF, Kundal 416309 -- B D Mane.

Vijapure PF, PO Kini, Hatkanangle Tq 416109 -- Gulab M Vijapure.

Vinay Poultry, Sawitri Niwas, Warananagar 416113; Prop: V V Kore.

Y G Pailwan, PF, 231/3A/1 Jadhavwadi, Opp Shahu Market Yard, Kolhapur -001; Ph: 4579 (3,000 L).

NAGPUR (Pin: 440---)

Bharati PF, Mohata Science College Rd, Hanuman Nagar, Nagpur -002.

U K Poultries, 44 Laxmi Nagar, Nagpur -002 -- U K Betole.

NASHIK (Pin: 422---)

Allhad PF, Kulkarni Colony, Sharanpur Rd, Nashik -002 -- W B Wagh.

C R M Farming Pvt Ltd, c/o Chemnar PF, Behind PWD Workshop, Trimbak Rd, Nashik -002; Ph: 3522; Dir: E M D'Souza (200,000 B).

Chemnar PF, Behind PWD Workshop, Off Trimbak Rd, Nashik -002; Ph: 3522 -- E M D'Souza (1,500 L, 80,000 B).

Garud Sahakari Kukkut Palan Sangh Ltd, Sangamner -605 (20,000 L).

Marshall PF, 'Shamrock', 58 Dhondy Rd, Devlali Cantt -401; Ph: 7332 (farm), 7312 (off) -- J N Marshall, S Joglekar (40,000 L). See Bombay.

Nasik Egg Enterprise; Farm: Vill Gordhan, Ph: 8580. See Chemnar PF, Nashik.

Reviera PF, 25-27 Dhondy Rd, Devlali -401; Ph: 41281, Gram: Romah -- R F Devlaliwalla (40,000 L, 20,000 B, 10,000 C).

Wadhane Farms, S No 248/3A Dindori Rd, Vill Mhasrul, Nashik -003 -- P N Wadhane (20,000 L).

OSMANABAD (Pin: 413---)

Jai Bhavani Tuljapur Taluka Kukkut Sanghopan Society Ltd, Vill Malumbra, PO Naldurg -602; Mgr: Dr Chavan (4,000 L).

PUNE (Pin: 411---)

Ahbuit Broilers, Jejuri Rd, Uruli Kanchan 412202; Ph: 162 (resi); Prop:S G Kolas (10,000 B).

Amit Farm, Soos Rd, Behind Pasan Vill; Ph: 32835 -- Uday Gharpure (8,000 B).

Aniketan Farm, "Ujwal", Ganeshmala,Vithalwadi Rd, Pune -030 -- S G Kolas, Ph resi: 34220 (15,000 L).

Asmita Enterprises, B-6 Chanakya Society, Shivajinagar, Pune -016; Ph: 55305; Prop: Smt S M Unde; Farm: Uruli Dewachi, Tal Haveli, Pune-Saswad Rd (35,000 B).

Atul PF, PO Manchar 410503 -- Arvind N Bhagwat (6,000 B).

Bandawala, Dr, Leprosy Hospital, Kondwa, Pune (10,000 L).

Bliss Farm Pvt Ltd, Naigaum (9,000 B Parents).

Chunky Chicks, c/o Gokhale Farm, Geeta Baug, Chinchwad, Pune -033; Partners: Smt J H Governor, Smt A Drego; Ph farm: 82836, resi: 66735 & 202 (Talegaon Dabhade) (1,000 B/week).

Crescent Farming Corpn, Alankar Cinema, 1st floor, Pune -001; Farm: Vadgaon Maval; Partners: Abas C Daruwala, Asif Daruwala, Arif Daruwala (50,000 L).

Dr Rahman's PF, Bmb-Pune Rd, Vill Sate, Vadgaon 412106, Maval Tq -- Dr Rahman (10,000 L).

Deccan PF, Vadgaon 412106 (Maval); Ph: 438, 389 -- Moiz H Tapia & Abid T Tapia (100,000 L). See Bombay.

Disney PF, Pune-Solapur Rd, PO Naigaon, Lonavala, Haveli Tq -- Arun B Bhagwat, Ph: 55398 (20,000 L & B)

Foods & Inns Ltd, PO Theur 412110 (55,000L).

Gaylayers Poultry & Farm Produce and Henlay, 72 Vadgaon Sheri, Pune -014; Ph: 26451 -- Smt T K Peddar (60,000 L). See Bombay.

Greenoaks PF, Viman Nagar Colony Rd, Off Viman Nagar Rd, Pune -014; Ph: 28910; Mg Partner: Smt S Kumar (20,000 B).

Happy Valley Farms, Somatne Vill, Talegaon Dabhade, Pune 410506; Ph: 543, 389, 266; Prop: Mrs N A Tapia (20,000 L).

Henlay PF, Vadu Khurd, Near Bhima River, Off Nagar Rd, PO Koregaon 415501, Via Vada, Haveli Tq -- K N Pedder(100,000L).

Hill 'N' Dale PF, Bmb-Pune Highway, Talegaon 410507; Prop: Mrs Patrica Drego, Ph: 396.

Indian Acres PF, PO General Hospital, Talegaon Dabhade 410507 -- A N Vasvani (10,000 B).

Karla Farms, Opp Holiday Camp, Bmb-Pune Rd, Tal Maval, Karla; Ph: 27 -- S R Lambat (40,000 L).

Lakshmi & Sonmala PF, PO Manjari 412307 (20,000 L).

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Nest-O-Egg, 87/4 Miles, Bmb-Pune Rd, Vill Sate, PO Vadgaon 412105, Maval; Ph: 30 (Kamshet), 122 (Talegaon); Smt Uma Mehta, Sanat Desai (40,000 L,40,000 B). See Bombay.
Nirmala PF, Sathe Biscuit & Chocolate Factory, 44/45 Alandi Rd, Pune -015; Ph: 25356 (1,000 B).
Pawansheel Poultries, Mamurdi, Tq Haveli; Mg Partner: Arjun Bulchandani(20,000 L, 20,000 B). See Bombay.
Payal PF, Urli-Kanchan (15,000 B).
Penhens PF, Vill Sate, Vadgaon 412108, Maval; Ph: 336 (Talegaon), 58 (Kamshet) -- M D Pendse (60,000 L).
Poona Poultry Products, Chanakya Society, near Wadarwadi Hospital, 411 Shivajinagar, Pune -016; Ph: 55305; Farm:Vill Mamurdi, PO Dehu Rd 412101; Ph: 276 -- M D Unde, P R Kibe; Mgr: R S Rawat (60,000 L).
Prabhat PF, Ali Vasti, Hadapsar, Pune-028; Prop: B P Kolsankar (7,000 B).
Rahul PF, Aundh Camp, Pune -007;Ph:52495.
Rainbow PF, "Asara", 202/1 Nagar Rd, Opp Aga Khan Palace, Pune -014; Ph: 24690; Farm: Wagholi -- P S Nigade (30,000 L).
Ranjit Sahakari Kukkut Palan Sangh Ltd, PO Sadashiv Nagar, Malsiras 413407 (15,000 L).
Shree Sai Krupa Farms, Vill Sajan, Tal Jawahar, Via Vikramgad 401605; Prop: Bahadur M Bhamgara. See Bombay.
Silver Wing Farms, Vill Mamurdi, Post Dehu Rd 412101; Mg Partner: P R Kibe; Mgr: Dr R S Rawat; Ph: 327 & 276 (Dehu Rd Exchange).
Somwath PF, PO Manjri 412307 -- Kalyani (40,000 L).
Sona PF, Poona-Solapur Rd, PO Naigaon, Haveli Tq -- Sonawane (10,000 B).
Suhas PF, Vill Arvanda, PO Tware (2,000 B/week).
Suvi PF, Haveli Tq, Pune-Solapur Rd, Naigaon; Ph: 79278 (4,000 B/week).
Takwe PF, Vill Takwe-Khurg; Ph: 67181 -- G E Karachiwala (60,000 L).
Uttara Farms, Vill Parandwadi, Talegaon Dabhade 410507, Maval Tq; Ph: 367, 239; Prop: Abbasibhai Barodawala (60,000 L).
Veekay Farms, Vadgaon 412106, Maval; Ph: 6 (Talegaon); Sr Partner: Roshan Lal Sawhney (70,000 L,50,000 B).See Bombay.
Venkateshwara Farms Pvt Ltd, PO Karla, Via Lonavala 410401; Ph: 34, 35; Exec Dir: Gulam Harianawalla (125,000 B).
Vigneshwara PFs, Plot No 494-5-6, 16/1 Milestone Pune-Solapur Rd, Vill & PO Naigaon, Theur 412110, Haveli Tq; Ph: 17 (Urlikanchan); Mg Partner: Smt Sudit Parekh (75,000 L). See Bombay.
Vijay Farming Enterprises, Sadhu Vaswani Rd, Pune -001; Ph: 62107 -- V Sakhrani (20,000 B).
Waksai PF, 77/3 Milestone, Bmb-Poona Rd, Waksai, PO Karla, Via Lonavala 410401 -- Saifuddin (20,000 B).

RAIGAD (Pin: 410---)

Anand PF, Vill Saswane, Alibag 402201 -- J N More (20,000 L).
Bharat PF, Arvali, Panvel -206 -- Smt B S Kulkarni (3,000 L).
Biraj PF, Small Vengaon, Karjat; Prop: Smt Bina Rajiv; Mgr: Shyam Joshi (3,000 L).
Dalgado Poultry, Palaspa, Panvel; Prop: V Dalgado (15,000 L).
Fields & Feathers Pvt Ltd, Nawada, Panvel Tq -206; Mg Dir: A G Merchant; H A Tyeb (15,000 L). See Bombay.
Harmina Farm, Kalamboli, Post Kadav, Karjat -201; Mrs Bina Vissanji (60,000 B).
Kinn Poultry, Palaspa, Panvel -206; Ph: 2619 -- Smt Claire Dalgado (50,000 L). See Bombay.
Nariman Agro-Investments Pvt Ltd, Vill Awas 402201, Via Rewas, Alibag Tq; Chmn & Mg Dir: Rusi D Nariman; Mgr: R K Mhatre (45,000 B).
Nezhuringal Farm, Arvali, Panvel -206; Ph: 2758 -- N P Lazarus (2,000 L).
Panvel Poultry Products, Khanda, PB No 136, Panvel -206; Ph: 2633 (farm), 2865 (resi) -- Mohamed H Jivaji (20,000 L).
Paras PF, Arivali, Panvel -206 -- B N Shevale (5,000 L).
Patil, Dinkar D, Kalve, PO Johe,Pen 402107.
Patil Farm, Palaspa, Panvel -206; Ph:2714; Partners:S S Patil,H D Patil(21,000 L).
Patil's PF, PO Nagaon 402204, Uran Tq -- Sunil N Patil.
Poultry & Poultry, 6/203 Arvali, Panvel -206; Ph: 2716; Farm: Kon-Arvali, Panvel; Ph: 2591; Prop: Dr M M Ali(5,000 L, 15,000 B).
Prabhat Poultry, Awas, Alibag 402201 -- Annasaheb Mhatre; Mgr: M B Desai (75,000 L, 25,000 B). See Bombay.
Princess Poultry Land, Palaspa, Panvel-206.
Purav PF, Saswane, Alibag 402201 -- P R Purav (15,000 L, 10,000 B). See Bombay.
Ravindra PF, PO Zirad, Alibag Tq -- Gajanan Govind Mhatre.
Reena Poultry Products,Palapsa, Panvel-206; Mg Partner: Smt Reena Gupta (25,000 B).
River Side Farm Products, Vill Killa, Roha Tq; Prop: Mrs B J Shroff (10,000 L, 10,000 B).

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Vidya Poultry Pvt Ltd, Arvali, Panvel -206; Chmn: Jadhav (3,000 L).
Vikas PF, Awas Phata, Alibag 402201 -- S T More (15,000 L).
Vikas PF, PO Johe, Pen 402107--K V Mokal.
Woodland PF, Saswane, Alibag 402201 -- N J Umrigar (10,000 L).

RATNAGIRI (Pin: 415---)

Ben-Hur Poultry Products, PB No 39, Tal Chiplun -605; Ph: 437 (resi); Prop: Smt Sophia K Kapoor (5,000 L).
Nilik PF, Nilik, Post Alsure, Khed Tq-709.
Shri Farm, At & PO Waked 416706, Tal Lanja -- Vijay S Shete.

SANGLI (Pin: 416---)

Anant PF, PO Tasgaon 416312 -- A Kulkarni.
Bedekar PF,Near Marathe Mills, Miraj -410.
Five Star PF, Behind Hindu Dharamshala, Budgaonkar Mala Rd, Miraj -410 -- A N Jadhav (5,000 L).
G K PF, High School Rd, Miraj -410; Prop: V I Gaikwad (2,000 L).
Gokhale PF, 12-13 Shaniwar Peth,PO Madhavnagar -406 -- S V Gokhale.
Janata PF, Shivaji Nagar, Factory Area, Sangli -416; Ph: 2355 -- D P Jadhav "Master" (2,500 L).
Jyoti PF, 1609 Extension, Behind Civil Hospital, Sangli -416 -- K G Prabhu.
Kolap's PF, Dr Ambedkar Rd, Miraj -410; Prop: S B Kolap (2,000 L).
Mane PF, Nadi Ves, Ring Rd, Miraj -410.
Paranjpe Group PFs, 34 Shivaji Nagar, Sangli -416; Farm: Madhavnagar Rd, Sangli; Ph: 2149; Partners: P M Pranjpe, Uday P Pranjpe (20,000 L).
Risbood, P V, Pise Bldg, Opp Hira Hotel, Miraj -410; Ph: 396 (3,000 L).
Sorte's Sunshine PF, Miraj Mission Hospital, Church Rd, Miraj -410 -- Moses John Sorte (3,000 L).
Uday Poultry, 34 Shivajinagar, Sangli-416; Ph: 2474; Farm: Madhavnagar Rd; Ph:2149 -- Uday Paranjpe (20,000 L).
Uma PF, Gosariwada Killa, Miraj -410 -- D G Marathe.

SATARA (Pin: 415---)

Ashok PF, PO Kole -103; Ph: 23; Partner: Prabhakar V Deshpande (2,400 L).
Asia Plateau Farm, Asia Plateau, Panchagani 412805 -- R D Mathur(1,000 L & B).
Bhagwat, G K, Kolewadi, Karad Tq(1,200 L).
Dina PF, Near Circuit House, Camp Satara -001 -- D J Satarwala (1,000 L).
Jagtap, B S, PO Vadgaon, Haveli, Karad Tq.
Jaiwant PF, Bhaktwadi-Rewdi, Satara Rd, -010 -- R N Jadhav.
Kalyani, Smt S P, PO Kole -103, Karad Tq (30,000 L).
Khetkar, B S, Kolewadi, Karad Tq -110 (3,000 L).
Mangala PF, Atepa-Kole, Karad Tq -103; Ph: 23 -- P V Deshpande.
Mayur Kukkut Palan Sahakari Sangh Ltd, Rethare Bk, PO Shivnagar -108, Karad Tq; Ph: 306 (Karad); Chmn: Bhausaheb Patil; Mgr: Dr N J Patil (60,000 L).
Prabhat PF, Kole -103 -- G K Bhagavat.
Raj PF, 11 Shukrawar Peth, Satara -002; Prop: R J Oak (10,000 L).
Rajhuns PF, Wai-Bavdhan Rd, At Wai; Ph: 103; Prop: Smt Vijaya Laxman Shelar.
Ramesh PF, Ajinkya Tara Godoli, Satara-001.
S Y Patil PF, PO Vaduj,Khatav Tq(5,000 L).
White Field Poultry Products, 907 At & PO Shirgaon, Tal Wai 412803; Ph: Bhuinj 52; Prop: Mrs Suman P Bhosle (5,200 L).

SOLAPUR (Pin: 413---)

Milind Poultry, 158 Rly Lines, Milestone No 6, Solapur; Farm: Bijapur Rd, Soregaon -- J I Uplap (2,000 L).
Rajhuns Sahakari Kukkut Palan Sangh Ltd, PO Yeshwant Nagar -118, Akluj; Ph: 112; Chmn: S V Rakale; Mgr: Dr Jagtap (100,000 L).
Shri Gunvant PF, Tuljapur -601--B R Tirath.

THANE (Pin: 400---)

Afsons Farm Products, Monor Rd, Palghar 401404; Ph: 173 -- A Afonso (20,000 B & 5,000 L). See Bombay.
Archana PF, 113 Wadaoli Section, Ambarnath 421501 -- D B Sharmacharya.
Chicken Garden, At & PO Uttan 401106 (500 L, 4,000 B).
Fali PF, Vill Met, Wada Tq--Anis S Gandhi (30,000 B). See Bombay.
Golden PF, 98 Pandurang Prasad, Near Datta Mandir, Chendani, Thane -601 -- Sapane.
Hilltop Farm, Vill Yeoor, Forest Rd, Thane -606; Ph: 596076, 501426; Prop: Arjun Bulchandani (20,000 B). See Bombay.
Ideal PF, PO Gokhivare 401205, Vasai Tq -- R N Yadav (5,000 B).
J K PF, Vill Met, Wada Tq -- J K Rawat (5,000 B)
Jay PF, PO Arnala 401302, Vasai Tq -- Dr B G Bhattekar (15,000 B).
Kashyap Poultry, Nilegaon, Nala Sopara West, Sopara 401203.
Merchant's PF, Vill Valiv, Vasi Tq 401201; Ph: 268928, 548209 -- M H Merchant

(100,000 B). See Bombay.
National PF, Vill Nimbovali, Bombay-Agra Rd, Post Bhivandi 421302.
Nirmal PF, c/o Santoshimata Flour Mills, Kisan Nagar No 3, Road No 16, Wagle St, Thane -601 -- S K Pawar.
Pinakin PF, At Sheel, Post Badlapur 421504, Ulhasnagar Tq -- Bal Bagwe (5,000 L).
Popular Farms, Opp CAFI Factory, Vill Koparkhairni, PO Ghansou, Thane -701 -- Ramesh Tulyani (5,000 B).
Prabhavi PF, Indgaon, PO Badlapur 421504, Ulhasnagar -- L K Vichare (8,000 L, 2,000 B/month). See Bombay.
Premier PF, Saibag, Virar 401303 -- V L Navalkar.
Prerana PF, Indagaon, Post Badlapur 421504, Ulhasnagar Tq;Prop:Suresh Rane(6,000 C).
Rewa PF, PO Kalher, Bhivandi Tq 421302.
Sawant, Ashok, Indagaon, Post Badlapur 421504, Ulhasnagar Tq (2,000 C).
Shinde PF, At Kaner, NH No 8, PO Mandvi, Vasai 401201.
Sunshine PF, Vill Gokhivre, Bassien Rd, Ph: 307, 573998 (resi) -- I D Kapoor.
Sunny Farm, Poultry Div, PO Viraj, Vasai Tq; Ph: 359639 -- Mrs Smita Khan (18,000 B)
Sushil Farm, Vill Koparkhairne, Opp CAFI Factory, PO Ghansoli, New Bombay -071; Prop: S M Bhalerao (6,000 B).
Warsi PF, Thane-Pune Rd, Vill Kawsa, Thane -601 -- Aziz Traders; Ph off: 383645; Farm: Kawsa Ext 38 (75,000 B).

Manipur

Asiana PF, Ukhrul 795142
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Subol Singh PF, Yumnam Khunou.

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Roy, Barun Kumar, Laban, Shillong -004 (1,500 L).
Sacred Heart College, Mawlai, Shillong -008; Ph: 23628 -- Fr Thomas Mattam (500 L).
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Sunny Side PF, Upper Shillong -003 -- L J Hennet.

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Ashok Das PF, Qr No 1-3, V-Point, Paradeep Port 754142 (1,000 B).
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Mohapatra, Manindra Kumar, c/o G Moha-

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Pattanaik, Arabinda, Qr No B-28, Sector 1, Vikrampur.
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GANJAM (Pin: 760---)

Balakrishna, B, Agro-Service Centre, Neelakantha Bhavan Barracks, Berhampur -001.
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K N Das PF, Sewak Nagar, Berhampur -001 (500 L).
Khiladi PF, At & PO Dubuduba, Via Bhanjnagar — Sri G Satapathy (1,000 L).
Panda, S P, Advocate, Panda Colony, Bhanjnagar -026.
Panigrahi, R M, Poultry Farmer, Ranganibandha Sahi, Berhampur -001 (500 L).
Patnaik, Gopinath, PF, Municipality Slum Colony, Berhampur -004 (1,500 L).
Samal, Manmohan, Poultry Farmer, Gopabandhu Nagar, Berhampur -001 (1,000 L).
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Aqiq PF, 247 Shaheednagar, Bhubaneswar -007 -- Dr M Ashafaque (2,000 B).
Behera, Khetra Mohan, PO Nimapara 752106.
Behera, Sunil, Gourbadsahi, Opp Water Tank, Puri 752001.
Bisoi, Aditya Kumar, Badadandasahi, Bhubaneswar -002.
Capital Poultry, Jharapara, Bhubaneswar -006 -- Dr Sudhir Mohanty (1,000 L).
Chand, Rajendra Nath, Utkal Engg Works, Cuttack Rd, Bhubaneswar -006.
Das, Smt Binapani, Qr No 6/1, Type-IVB, Unit-3, Bhubaneswar.
Das, Pradip Kumar, At Saila Nivas, Chitrakara Sahi, Puri.
Das, S K, 43 Ekmara Marg, Unit 6, Bhubaneswar -001.
Das, Sanjay Kumar, c/o R P Das, Qr No 5, Type-VI, Unit 1, Bhubaneswar.
Ghosal, Anup, Poultry Farmer, Nageswar Tangi, Bhubaneswar -001 (500 L).
Ghosh, Sukumar, Chakratirtha Rd, Puri 752002 (500 L).
Jena, Jharendra, c/o Arjuna Jena, Jharapada, Bhubaneswar -006.
Jena, Jogendra, Jharapada, Bhubaneswar-006.
Kar, D K, 3/5, R (Flat), Unit-III, Bhubaneswar -001.
Kashmir Singh, Kalsi Petrol Pump, Janpath, Bhubaneswar -001 (1,500 L).
Kusum Manjari PF, At & PO Khumbhar Pada, Puri 752002 — Harihar Mohapatra (1,000 L).
Mangaraj, Bichitrananda, Jagannathapur, Jatani, Puri 752050.
Mishra, Susanta, Qr No 15/2, Type II, Unit 3, Bhubaneswar -001.





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Pradhan, Rama Chandra, Sikharpur, Via Sarankula, Puri 752080.
Rao, G K, Poultry Farmer, Khurda Rd, PO Jatni 752050 (1,000 L).
Ray, G, c/o S C Ray, F-310, RRL, Bhubaneswar -013.
Ray PF, Cuttack Rd, Bhubaneswar -006; Prop: Satyajit Ray (3,000 B)
Rout, Ajoy Kumar, 274 Bapujeenagar, Bhubaneswar -009.
Sabita Poultry, Harachandisahi, Bhubaneswar -002 -- A S Ray.
Sahoo, A K, 583 Sahidnagar, Bhubaneswar-7.
Sahoo, Sarat, At & PO Rupadaipur.
Sahoo, Smt Sarojini, c/o D N Sahoo, 650 Sahidnagar, Bhubaneswar.
Senapati, Samir Kumar, Plot No 260/A, Sahidnagar, Bhubaneswar -007 (500 L).

SAMBALPUR (Pin: 768---)

Choudhury, S K, Poultry Farmer, Jharsuguda -201.
Kosala Enterprisers, B-4 Indl Estate, Sambalpur -101; Ph: 844, 766, Gram: Kosalas — K M K Murty (5,000 L, 500B).
Rath, Dr Jogeswar, Poultry Farmer, Bargarh -028.

SUNDERGARH (Pin: 769---)

Birds India, c/o S K Basu, Power House Rd, Rourkela -001; Farm: Banki-Bazar.
Dash, Arun Kumar, Shop No 72, Ispat Market, Rourkela.
Kanungo, S D, Qr No A/172, Sector 4, Rourkela -003.
Mishra, Sitakanta, Qr No B/155, Sector 18, Rourkela -003.
Mohanty, B R, Qr No A/73, Sector 7, Rourkela -003.
Mohanty, Smt Suprova, Zamunahaki, Kuanrmunda, Rourkela.
Mohapatra, A K,C/32 Sector 2,Rourkela-003.
Nayak, N C, Gen Mgr (Works), Rourkela Steel Plant, Rourkela.
Parida, Smt Manasi, Qr No C/35, Sector 2, Rourkela -003.
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Roy PF, Qr No A/73, Sector 7, Rourkela -003 — Smt Sova Roy (1,000 L).
Rourkela Poultry Farmers Coop Society, Ispat Nagar, Rourkela.
Saint Paul School, Hamirpur, Rourkela-003.
Santra, B, Panposh, Rourkela.

Pondicherry

PIN: 605---

Gloria Land Dairy & Agri Farms, Sri Aurobindo Ashram, Pondicherry -002; Ph: 37 (Villianur).
Lake Estates, Sri Aurobindo Ashram, Pondicherry -002; Ph: 47 (Villianur); Mg Dir: L J Allan; Hon Adviser: Dr S C Ray (2,000 L, 500 B).
Nouvelle Laiterie (Sri Aurobindo Ashram Dairy & PF), North Boulevard Rd, Pondicherry -001 -- A K Bose.
Sarkar, B K, Sri Aurobindo Ashram, Vellapillai Chawadi, Pondicherry -001.
Sundaram,A,78 Elangonagar,Pondicherry-001.

Punjab

AMRITSAR (Asr) (Pin: 143---)

Amritsar Poultry & Hatchery Farm, PO Kot Mit Singh, Tarn Taran Rd; Ph: 47105 (PP) -- Krishan Kumar, Parveen Kumar (6,000 L).
Avtar Singh, Old Kairon Rd, Patti -416 (11,500 L).
Bhandari PF, G T Rd, Pratap Nagar, Asr-001 (10,000 L).
Butari PF, Railway Rd, Buttari, PO Khilchian -111; Ph: 72 (Rayya Ex); City Address: 106 Lawrence Rd, Asr; Ph: 46015 -- Manmohan Singh Bubber(11,000L).
Golden PF, Fatehabad -407, Tarn Taran (7,000 L).
Goodwill PF, Garden Colony, Patti -416; Ph: 45 -- Prem Singh (5,000 L).
Gurcharan Singh, Vill & PO Gagobua, Asr -001 (8,000 L).
Highway PF, Tarn Taran -401 (9,000 L).
Jagjit PF, Court Rd, Patti -416 -- Bhagat Singh (12,000 L, 10,000 B, 2,000 BB).
Maluk PF, Vill & PO Meeran Kote -- Maluk Singh (7,000 L).
Melsons PF, Bank of India Line, Batala Rd, PO Khanna Nagar, Asr; Ph: 51592; Partners: Satish Sharma, Surinder Sharma, Virender Sharma (2,500 L).
Modern PF, PO Patti -416 -- Mohinder Singh (8,500 L).

Pal PF, Jail Rd, Asr -001 (15,000 L).
Paul PF, 68 Kennedy Ave, Asr -001; Ph: 52783 — Yash Paul Sekhri (7,000 L).
Prem PF, 30 Garden Colony, Patti -416 -- Surjit Singh (8,000 L & B).

BHATINDA (Pin: 151---)

Dabwali PF, Near Delhi Octroi, PO Dabwali -- Vinod (5,000 L).
Garg PF, Gupta St, Kotkapura -204 — Darshan (10,000 L).
Gupta PF, Kotkapura -204 -- Deena Nath Gupta (10,000 L).
Jethuke P Workshop PF, Vill Jethuke, Bhatinda -001 (6,000 L).
Mehta PF, Near Head Water Works, Civil Station, Shantnagar, Bhatinda -001; Ph: 714 -- Ramesh Mehta (7,000 B).
Sunder PF, Kotkapura -204 (5,000 L).

FARIDKOT (Pin: 151---)

Gill, Darshan Singh, Vill & PO Dalla 142011, Via Moga (7,000 L).
Gill, Harbans Singh, Vill & PO Ghall Kalan 142048, Via Moga (3,000 L).
Green Field PF, Faridkot -203 — Capt Reet M P Singh.
Gursewak Singh, PO Nihal Singh Wala 142055, Via Moga (4,000 L).
Raj PF, Near Geeta Cinema, Moga 142001 (4,000 L).
Virk PF, Vill Virk, Tehsil Jagraon 142026 -- Surjit Singh (5,000 L).

FEROZEPUR (Pin: 152---)

Barar PF, Vill & PO Balamgarh, 5th Mile from Muktsar, Jalalabad Rd, -024 — Vir Singh (5,000 L).
Bhupinder Singh, Vill Thandewal, Muktsar -026 (6,000 L).
Kuku PF, 38/17 Basti Tanekawali, Ferozepur -001 — Harjinder Singh (8,000 L).

GURDASPUR (Pin: 143---)

Delux PF, Fategarh Churian -602 — Joginder Singh (9,000 L).
Embrocia Farms Pvt Ltd. Regd Off: Vill Kotli, PO Jakolari; Mg Dir: Kuldip Singh Gill, Ph: Pathankot Exch 822, Kotli Exch 23, 26, 27; Farm: Vill Tharial (By-Pass Defence Rd), PO Madhopur; Ph: Pathankot Exch 1199 (200,000 L).
Gill Farms, Regd Off: Vill Kotli, PO Jakolari; Chief Exec: Kuldip Singh Gill, Farm: Vill Tharial (By-Pass Defence Rd), PO Madhopur (50,000 L).
Gobind PF, Vill & PO Naushera Majja Singh -518, Batala (17,000 L).
Kisan PF, Vill Quila Darshan Singh, Batala -505 — Gurbachan Singh Sahi (12,000 L).
Kuldip Singh, Vill Quila Darshan Singh, Batala -505 (10,000 L).
Mittar Pal Singh, Vill Quila Darshan Singh, Batala -505 (16,000 L).
Shai PF, Vill Quila Darshan Singh, Batala -505 (8,000 L).
Surat Singh, Vill Quila Darshan Singh, Batala -505 (14,000 L).
Unique PF, Aliwal Rd, Batala -505 — Tarlochan Singh (8,000 L).

HOSHIARPUR (Pin: 146---)

Asian Poultry & Broiler Farm, Vill & PO Mahatpur, Via Balachaur 144521 — Hardayal Singh (3,000 L, 5,000 B).
Dasuya Poultry Farmers Coop Society Ltd, Dasuya 144205; Pres: Cheema (150,000 L).
Gurmit Singh, Vill & PO Kandhala Jatha, Via Bullowal -113 (5,000 L).
Om Prakash, Maj (retd), Vill Jaja, PO Urmar 144204 (5,000 L).
Sethi, Santokh Singh, Vill Dashmesh Nagar, PO Tanda 144203 (5,000 L).
Shakuntala PF, c/o Kumar Feed Store, PO Tanda 144203; Ph: 74 (3,000 L).
Sodhi, Jaswir Singh, Vill Aiyapur, PO Urmar 144204 (7,000 L).

JALANDHAR (Jlr) (Pin: 144---)

Arjan Singh PF, Vill & PO Jandu Singha-025; Ph: 75471 — Bhupinder Singh, Harjit, Gurmit & Kanwalbir (20,000 L).
Aujla PF, Vill & PO Jandu Singha -025 — Gian Singh Aujla (6,000 L).
Chaudhry PF, Vill & PO Rahon -517 — Anil Chaudhry (15,000 L).
Chick Chick House PF, Vill & PO Suranassi, G T Rd, Jlr; Ph: 7270 — Amarjit Singh (2,000 L, 10,000 B).
Gulli PF, Vill Jhuta, PO Goraya -409 (5,000 L).
Gurmeet Singh, Vill & PO Jandu Singha -025 (5,000 L).
Hari Singh, Vill Phodipur, Teh Nakodar, Jlr (3,000 L).
Joginder Singh, Vill & PO Gohir, Jlr; Ph: 7270 (PP) (2,000 L, 8,000 B).
Kalsi PF, Kapurthala Rd, Basti Bawa Khel, Jlr -021 — Surinder Singh (5,000 L).
Lachhmi PF, Noor Mahal Rd, Phillaur -410; Ph: 117—Prem Sagar Bhandari (4,000 L).
M B PF, Vill & PO Garha -022 — Amar Singh Monitor (6,000 L).
Manmohan Singh, Vill & PO Garha -022 (5,000 L).
Rali PF, Vill Atta, Goraya -409 (1,000 L).
Rana PF,Vill Dhandey—Ranjit Singh(2,000L).
Sutlej Poultries, Nurmahal Rd,Phillaur-410 — Dharam Pal, Mohinder Pal (6,000 L).
Swaran Singh, Vill Malkotrar, Jlr (2,500L).

Unique PF, Vill & PO Gakhlan, Jlr — Harbhajan Singh (3,000 L).

KAPURTHALA (Pin: 144---)

Cheema PF, Hadiabad Phagwara (2,500 L).
Gurdev Singh, Vill Sarhali, Kapurthala -601 (9,000 B).
Pannu PF, Vill Daudpur, PO Mirrapur (4,000 L).
Surjit Singh, Sarpanch, Vill Ucha-Pind, Via Satnampura -402, Phagwara(5,000L).

LUDHIANA (Ldh) (Pin: 141---)

A K PF, Vill Meherban, PO Gill -116 — A K Pathak (6,000 L).
Anu PF, 41-D Kitchlu Nagar, Ldh -001; Ph: 33180; Farm: Vill Habowal Kalan; Prop: Hari Om Mittal (5,000 L).
Ashoka PF, Rahon Rd, Brahmpuri, Ldh — B B Bali (18,000 L).
Avtar Singh, Vill Beja, Ldh (20,000 L).
Baldev Singh, Vill Jhabewal, Ldh (9,000L).
Bharat PF, Vill Bhattian, G T Rd, Ldh-005 -- Harbhajan Singh (16,000 L).
Bhatia PF, Chandigarh Rd, Samrala -114 — Vinod Bhatia (8,000 L).
Bhupinder Singh, Vill Heeran, Ldh -001 (6,000 L).
Cosmo Poultries, Vill Chabbewal, PO Jandiali -303; Ph: 23754, 27154 — Jasbir Singh (100,000 L).
Daljit PF, Domoria Pul, Ldh — Mohinder Singh (15,000 L).
Eggland PF, Gurdev Nagar, Jawadi, Ldh -- Arora (12,000 L).
Garcha PF, Pakhowal Rd, Ldh; Ph: 25912 — Sukdev Singh, Jagdish Singh (45,000 L).
Garcha, Surjit Singh, 184-A Sarabha Nagar, Ldh -001; Farm: Vill Jugiana, Ldh (6,000 L).
Garewal PF, Vill & PO Baddowal 142021; Ph: 27081 — R S Garewal (10,000 L, 5,000 B).
Garki PF, Vill Phulanwal, Ldh (25,000 B).
Gill, Khushal Singh, Chandigarh Rd, Vill Jandiali, PO Sanehwal -120 (10,000 L).
Grewal, Lt-Col H S, Gurdev Nagar, Ldh (7,000 L).
Gurdial Singh, Vill Jhandu, Ldh (8,000 L).
Gurmail Singh PF,Vill & PO Sanehwal -120 (8,000 L).
Hara Coop Poul Farm Ltd, Vill & PO Nandpur — Maj Ajaib Singh (40,000 L).
Hardial Singh & Sons, Vill Jhande, Ldh (7,000 L).
Hari Singh, Vill Jai Pura, Via Doraha-421 (8,000 L).
International Poultries, Vill & PO Sanehwal -120 — Maj S S Bhatnagar (12,000 B)
International PF, Vill Barewal, Ldh — Maj Gyan Singh (8,000 L).
Jindal Farms, Chandigarh Rd, Near Shingar Place, Ldh -008; Ph: 26314; Partners: Surinder Jindal, Romesh Jindal.
Karnail Singh, Vill Shohpur, Ldh (7,000 L).
Khushal Singh, Vill & PO Jandiali -303 (8,000 L).
M M PF, 461 Model Town, Ldh -002 — Tehal Singh Deol (5,000 L).
Manmohan Singh, Vill & PO Kariana, Ldh; Ph: 22544 (7,000 L).
Mohinder Singh, Vill Habowal, Ldh(12,000L).
N K PF, Vill Baddowal 142021 (6,000 L).
Namita PF, Gurdev Nagar, Jawadi, Ldh (10,000 L).
Narain PF, Tajpur Rd, Ldh -008; Ph: 32859 -- Narain Singh (10,000 L).
Oberoi PF, 434/2 Krishan Nagar, Civil Lines, Ldh -001 — Gurcharan Singh (7,500 L).
Param Jit Singh, Vill Noor Wala, Rahon Rd, Ldh (10,000 L).
Pawan PF, Sherpur By-Pass, Industrial Area "A", Ldh -003; Ph: 24408 (6,000 L).
Pick-n-Egg Farm, 616-R Model Town, Ldh-002; Ph: 21191; Farm: Pakhowal Rd; Ph:21194 -- Bhupinder Singh & S P Singh(25,000L).
Pubhe PF, Habowal, Ldh -001 (6,000 L).
Public PF, Haibowal Kalan, Ldh -001; Ph: 29820 -- C R Gandhi (8,000 L, 900 B).
Punjab PF, 602-R Model Town, Ldh -002; Farm: Chandigarh Rd, PO Jamalpur, Awana, Ldh; Ph: 31745, 32189 (farm); 35037 (off); 36686, 34686 (resi); Prop: Smt Gulbir Kaur; Mg Partner: Kanwaljit Singh (85,000 L, 25,000 B).
Punjab PF, Vill Gohaur, Ldh (12,000 L).
Rajinder Singh, Vill & PO Baddowal 142021 (12,000 L).
Rajindra PF, 708/7 Industrial Area "A", Ldh -003; Ph: 24408 (farm); 29146 (resi) — Rajinder Pahwa (8,500 L).
Randhir Singh, Maj, Vill & PO Katani Kalan -113 (6,000 L).
Ranjit Singh Khakh, Sarpanch, Vill Gobindgarh, PO Jugiana (12,000 L).
Ranjodh Singh, Vill & PO Isewal, Ldh -001 (7,000 L).
Rimpi PF, Jindal Seeds, Chandigarh Rd, Near Shingar Place, Ldh -008; Ph: 26314 — Sat Paul Jindal (6,000 L).
Satish PF, Vill & PO Kariana Kalan, Ldh -- Manmohan Singh (7,000 L).
Sunbeam Farms, Salem Tabri-005,Ldh(7,000L).
Swaran PF, Vill Jhande, Vill & PO Baddowal 142021 -- Hardyal Singh (6,000 L).
Vinod PF, Samrala -114 (5,000 L).
White Feathers PF, 659/1 Gurdev Nagar, Ldh -001; Ph: 23169; Farm: Vill Jawanda —

S S Jawanda (4,000 L).
White Pearls PF, F-40 Sarbha Nagar, Ldh -001; Farm: Jagraon Rd, Vill Barewal — Smt Rano Padan (20,000 L).

PATIALA (Ptl) (Pin: 147---)

Arora Farms, Hamayunpur, Sirhind 140406; Partner: Shiv Kumar Kukreja(10,000 L).
Bahadurgarh Farm, Motibagh Palace, Ptl-001 — Yuvraj Amrinder Singh (5,000 L).
Capt Oberoi PF, Vill&PO Handsera(5,000 L).
Chadha PF, Bishan Nagar, Ptl -001 — Harbans Singh (8,000 L).
Dimple PF, Yadavendra Bhawan, Tashkent St, Ptl -001 -- Smt Jaswant Singh (3,000L).
Golden PF, G T Rd, Rajpura 140401(6,000B).
Grewal Farms, Col Isher Singh Bldg, Opp Military Hospital, Ptl -001; Ph: 4266 — Lt-Col Man Singh (3,000 L).
Gurbachan Singh, H No 3991/3 Near Chehal Quarter, Radho Majra, Ptl -001(8,400L).
Jagnandan Singh, Vill Chanarthal -104 (3,000 L).
Kasturba Sewa Mandal PF, Rajpura 140401; Dir: Sushil Kumar (8,000 L).
Lakshmi PF,Rly Rd,Sirhind 140406(2,000 L).
Mohan Mukund Singh, Brig, Retreat, Brar St, Ptl -001 (1,500 L).
Sodhi PF, Vill & PO Daulat Singh Wala; Ph: 35 (Zirakpur).
Surendra PF, G T Rd, Rajpura 140401 -- Dr Surendra Singh Brar (5,000 L)
Yash Pal, Egg Merchant, Near Veterinary Hospital, Rajpura 140401 (2,000 L).
White Bila PF, Umbar Bila, Ptl -001 -- Tej Pratap Singh (24,000 L).

RUPAR/RUPNAGAR (Pin: 140---)

Amrik PF, Randhawa Rd,Kharar;Prop:A Singh.
Bularia PF,Vill Balongi,Via Rupar(5,500L).
Dhindsa PF,Ghazipur Derra Bassi -507 -- Rajpal Singh (6,000 L).
Dimpy PF, Balongi, PO Daon, Kharar; Prop: Smt H Kaur.
Gill, Darshan Singh, Vill & PO Bela -111 (7,000 L).
Iqbal PF, Vill & PO Khanpur, Kharar; Ph: 85332; Prop: M Iqbal.
K S Town PF, Rajpura -401 (11,000 L).
Kanwar PF, Balongi, PO Daon, Kharar; Prop: Smt S Thakur.
Model PF, Vill & PO Kharar -301; Ph:88383 (Chandigarh); Farm: Khanpur -- Surjan Singh (4,000 L).
O K Sodhi PF, Choi Bazar, Anandpur Sahib, Rupnagar -001 -- Onkar Singh Sodhi (3,000 L).
Randhawa PF, Ghazipur Derra Bassi -507 -- Maj S S Randhawa (10,000 L). See Chandigarh.
Sandhu PF, Vill Vadali, PO Nawanshahr 144514; Prop: Inderjit Singh Sandhu.
Sekhar PF, Vill & PO Kurali -103 — Harpal Singh (5,000 L).
Shivalik PF, Ghazipur Derra Bassi -507 — Vipen Saini (8,000 L).
Sudesh PF, Khanpur, Kharar -301; Prop: Smt Sudesh Kumari Joshi.
Sukhmindra PF, Balongi, PO Daon; Prop: Smt S Dhillon.
Surjit Singh, Rampura Kalan, Via Rupar-001 (19,000 L).
Tripta PF, Vill Mundi Kharar-301(12,000 L)
Vinod PF, Opp State Bank of Patiala, Kharar; Prop: V Kumar.

SANGRUR (Pin: 148---)

Barnala PF, PB No 23, Handiaya Bye-Pass, Barnala -101; Ph: 1075; Mg Partner: Suresh Kumar (8,000 L).
Friends PF, Dhanaula Rd, Barnala -101; Ph: 931 (9,000 L).
Ganpat Rai, Egg Merchant, Sunam Gate, Sangrur -001 (3,000 L).
Panjab Poultry & Feeds, PB No 3, Barnala -101; Ph: 370, 460 — Rakesh Kumar (50,000 L).
Satnam PF, Near City Hospital, Dhuri 148024; Ph: 2904 — Manmohan Singh (4,000 L)
Sekhon PF, Sekhon Niwas, Near Ranbir Club, Sangrur -001; Ph: 205 — Smt J K Sekhon (2,000 L).
Sibian PF, Vill Sibian; Ph: 555 — Sukhmi der Singh (5,000 L).
Siddhu PF, Near Truck Union, Dhuri Rd, Malerkotla -023 — Ranjit Singh Siddh (8,000 L).

Rajasthan

AJMER (Ajm) (Pin: 305001)

Anoopam PF, 206/X Nagina Bagh, Ram Nagar, Ajm; Ph: 21043 — Ashok Mathur.
Ashapurna PF, Ashapurna Bhawan, 89 Navrar Nagar, Beawar; Prop: Smt Kamlesh (1,000 L).
Bhatnagar PF, Foy Sagar Rd, Near Stone Factory, Ajm — M P Bhatnagar (5,000
Dr R Prasad PF, Nagina Kothi, Ajm -001 Ph: 21842; Farm:Dhola Bhata Rd(8,000
Epkoma PF, Ramnagar, Ajm — Dr Chander Narayan (20,000 L).
Fateh PF, 168 Shahi-Mahal, Dargah Shareef Vill Hatundi, Ajm; Ph: 20819 — A S Jamil Chishti (6,000 L).

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Mosim Poultry, Vill & PO Rasoolpura, Via Mandar; Prop: Samad Noor Khan (1,000 L, 3,000 B).
Narander PF,Vill Golia,PO Sapla,Via Kekri.
Narang PF, Vill Noser, Ajm; Ph resi:20420 -- Prof C P Narang (4,200 L)
Nitu PF, Dhola Bhata Rd, Ajm; Prop: Kishan Ahuja, Ph: 20169 (3,000 L).
Premier PF, Vill Noser, Ajm; Partner: Rakesh Mittal, Ph: 23520 (3,500 L).
Pushpa PF, Asha Ganj, Ajm -- N J Murani, Motilal Thaker (4,000 L).
Rajasthan PF, Gulab Bari, Ajm; Ph: 21237 -- Ramesh Saxena (5,000 L).
Rajeev PF, Kundan Nagar, Ajm; Ph: 20520 -- G L Nanda (4,000 L).
Rathor PF, Vill & PO Kekri; Prop: Banbeer Single (1,200 B).
Rawat PF, PO Kanakheri; Prop: N S Rawat (500 L, 1,000 B).
Sankhala, N D S, Srinagar Chauri, Ajm; Ph: 21920 (12,000 L).
Savitri PF, Pushkar Rd, Noser, Ajm; Prop: Smt Savitri Mishra (3,000 L).
Shankar PF, Dhallu Bhutta Rd, Ajm; Prop: Kaluram; Ph: 23441 (1,700 L).
Shikha PF, Zohagal Rd, Ajm; Prop: Arun M D Rozario; Ph: 22958 (2,300 L).
Shiv PF, Vill Saprunda, Via Junia, PO Lallai -- Prithvi Singh Rathore.
Shri Durga PF, Jet Pole Gate, PO Sawar 305407; Prop: Rajendra Pratap Singh Rathore (500 L, 12,000 B).
Sundeep PF, Dhola Bhata Rd, Ajm -- Prof Malhotra (5,000 L).
Thakur PF, II-B Ramnagar, Ajm; Ph: 20732 (9,000 L).
Vaishali PF, Noser Ghati, Pushkar Rd, Ajm; Ph: 22688 -- Ratan Singh (2,000 L).
Veena PF, Pushkar Rd, Ajmer -- Sukhu Mal (12,000 L).
Vishal PF, Vill Noser, Ajm -- Deepak Vidhani Vidhani, Smt Manju Jhurani, Ph: 23527 (3,500 L).

ALWAR (Pin: 301---)

Raja PF, Khartal, Alwar -404; Ph: 94, 180 (resi); Prop: Durgadas; Mgr: Inderlal (6,000 L).

BIKANER (Pin: 334001)

College of Veterinary & Animal Sciences, Poultry Farm, Bikaner--Prof-in-charge: Dr Balbir Singh (2,000 L).

JAIPUR (Jpr) (Pin: 302---)

Choudhry, Smt P K, Ajmer Rd, Jpr -006; Ph: 73573 (3,000 L).
Mathur, P D, Near Panchayat Samiti, Jhatwara, Jpr -012; Ph: 842293 (4,000 B).
Payal, Swaroop Singh, Niwaru Rd, Indl Area, Jhotwara, Jpr -012.
R K PF, C-30 Raja Park, Adarsh Nagar, Jpr.
Rajasthan PF, c/o Civil & Military Stores, M I Rd, Jpr -001; Ph: 76929, 84495 -- Miss Sunanda Kanwar (3,000 L).
Srivastava, J P, E-171 Ramesh Marg, C Scheme, Jpr -001; Ph: 699440.

JODHPUR (Pin: 342001)

Daya PF, Bagar Chowk, Kile-ke-Ghati, Jodhpur -- Kishan Singh Daya (2,400 L).
Premier PF, Udai Mandir, Aasan, Jodhpur -- Atma Ram Dhankani (3,000 L).
Shan PF, Vill Paal, Via Jodhpur -001 -- R C Choudhary (6,000 L & 1,000 B).
Sunset View PF, Opp Central School, Ratanada, Jodhpur -- Brig B Lall (2,500 L).

KOTA (Pin: 324---)

Amis PF, Badgaon, Kota-Azizullah Khan (4,200 L).
Chadha PF, Kunadi 325002 -- Kuldeep Singh Chadha (4,500 L).
Navjot Poultry Breeding Farms & Hatchery, Opp Akelgarh Water Works, Shivpura, Kota -009; Ph: 4216 -- Waryam Singh (5,000 L).
Poultry Estate, c/o Govt Poultry Farm, Kota; Ph: 4965 (10,000 L).

SRI GANGANAGAR (Pin: 335---)

Choudhry PF, Hanumangarh Town-513(6,000 L).

UDAIPUR (Upr) (Pin: 313---)

Agriculture College PF, Upr; Ph: 4335 (5,500 L).
Chaudhury PF, Vill & PO Mavli -203 -- Sanjiv Chaudhury (4,000 L)
Durg PF,Vill Kucholi, Tehsil Mavli -203; Ph: 33 -- Sher Singh Ranawat (5,000 L).
Mewar PF, Vill Gudli, Upr -- Gopal Singh Ranawat (2,000 L).
Ram Singh, Lt-Col, Vill Titardi, Upr (1,000 L).
Ranawat PF, Hiran Magri, Upr -001; Ph: 4059; Prop: R B S Ranawat (15,000 L).
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CHINGLEPUT (Cpt) (Pin: 603--)

Chingleput Farm, 92 Rajaji St, Cpt -001 -- P B Mukundan (5,000 L).
Orient Marine Products PF, Vill Padur, PO Kelambakkam; Ph: 77 -- Inayathullah (5,000 B).
Poultry & Dairy Farm, Melrosepuram Rd, PO Singaperumalkoil -204; Ph: 27 (farm), 38 (resi); Partners: K J Seetha Raman, K J Ramaswamy; Mgr: V R P Mani (50,000 L). See Madras.
Sabari Egg Farms, Vill Padur, Kelambakkam, Cpt; Ph: 76 (Kelambakkam) -- Narayana (6,000 L & 5,000 B).
Siddharth Agencies, Kolathur Vill, S P Koil; Partners: Smt Lalitha Seetharaman, Smt Kalpana Ramaswamy (25,000 L). See Madras.
Sri Lakshmi Poultries, 148 Sithalapakkam Vill, Saidapet Tq; Prop: S Lakshmana Rao, Ph resi: 434158 (Madras).
St Mary's Farm, Mt Carmel Mission, Kelambakkam -112; Ph: 76 (Kelambakkam) -- Rev Fr K M Joseph (4,000 L).
Ticino Rural Development Society, Vill & PO Kelambakkam; Mgr: Royappa (1,000 L).
Triple SSS Broilers, Happy Farm Saif Gardens, Pudupakkam 603103, Kelambakkam-Vandalur Rd; Ph: 69. See Madras.
White Shell PF, Pallavakkam Vill, PO Thiruvanmiur 600041; Ph: 414039; Prop: G Ranganathan (5,000 L). See Madras.

COIMBATORE (Cbe) & PERIYAR DISTS (Pin:641--)

A K M PF, PO K Ayyampalayam 638662 -- A K Murugasen; Ph: 50 (PP) (5,000 L).
Ammaniammal PF, Perundurai Sanitorium Via, Perundurai, Periyar Dist; Prop: Jayachandran (6,000 L).
Anand Jothi PF, 16, KVR Nagar, Tirupur 638604 (5,000 L).
Annamar PF, Panchalinga Puram, PO Sambnathapuram 638104; Prop: S Paramasivan; Ph: MDK 2692 (1,100 L).
Arun PF, Pattinam Pudur, Via Ondipudur, Cbe -016 -- R Ramasamy (5,000 L).
Aruna PF, PO Vellambadai, Cbe (4,000 L).
Atthapa Gowder, C B A, Salai Thottam, Chinnagounder Palayam, Panickampatty Vill, Palladam (10,000 L).
Balaji PF, PO Vellambadai, Cbe (4,000 L, 6,000 B).
Balamani PF, Chinnia Gounder Palayam, PO Panikkampatty, Palladam Tq -- Atthappa Gounder (9,000 L).
Balasundaram, s/o Ponnusamy Gounder, Kattupalayam, Saminathapuram Post, Erode (5,500 L).
Blue Hills PF, Chettipalayam, Via Podanur, Cbe -201 -- Charles Mani (8,000 L).
Bright India PF, Pudupalayam, PO Alampalayam, Erode 638006 -- A Shanmugam.
Chako PF, Chettipalayam, Via Podanur, Cbe -201 -- Dr S Swaminathan (9,000 L)
Chandrasekar, R P, Rangasumudran, Panikkampath PO, Palladam Tq (4,000 L).
Deivam PF, PO Unjalur 638152 -- P Thangavel (1,000 L).
Devaraj, M, 189 A Chathi Rd, Erode 638001; Ph: 4083, 5132.
Dhanalaxmi PF, Kattuppalayam, Chavadipalayam Via, Periyar Dist--Balasubramanian (7,000 B).
Duraisamy, K P, Thathara Kadu, Karavalasu, Velaithottam Post, Sivagiri Via, Periyar Dist (7,000 L).
Duraisamy, P, s/o Ponnusamy Gounder, Kattupalayam, Saminathapuram Post, Erode (5,500 L).
E K Paramasivan PF, Kakam PO, Vellakkathi Via, Periyar Dist (2,000 L).
Eggomatic Farm, Kaniyur PO, Karumuthampatti 638659; Ph: 121; Prop: Bala Shanmugam (10,000 L).
Ellayammal PF, Kattuppalayam, Chavadipalayam Via, Periyar Dist; Prop: Duraisamy (8,000 L).
Gomathi PF, Seethapalayam, Bhavani Via, Periyar Dist; Prop: T K Subramanian (3,000 L).
Gopal & Co PF, Veppankuttaipalayam, PO Puliampatti, Karadibavi 638658; Mg Partners: C Balasubramanian, C Vadivelu; Ph: 44 (Karadibavi) (35,000 L, 5,000 B).
Jagajothi Egg Production Centre, Kunnathur Rd, Perundurai -- P Arumugam (10,000 L).
Jai Bhuvaneswari PF, Thatharakadu, PO Vazhaithottam, Sivagiri 638109, Erode Tq; Ph: 98 -- K P Doraisamy (16,000 L).
Jaya Krithik PF, Kattuppalayam, Swaminathapuram Post, Modakurichi 638104; Prop: K S Deivasegamani, Ph: 3684 (1,300 L).
Jayamani PF, Mariyanna Valasu, Erode -- C Murugesan (7,500 L).
Kandasamy, N V K, Pappampalayam, Erode 638007 (15,000 L).
Kandasamy PF, Ganapathipalayam, Periyar Dist; Prop: Kandasamy (2,000 L).
Karthikeyan, S, s/o Samayappa Gounder, Pasur, Erode (6,000 L).
Karuppasamy, Valaiyankadu, K A Palayam (2,700 L).
Kulanthaivelu PF, Veeranampalayam PO, Kunnathur Via, Periyar Dist (2,000 L).
Kuttilakshimi PF, Saminathapuram 638104,

Erode Tq; Prop: Smt M Kuttilakshmi. Office: 49/C Gandhiji Rd, PB No 415, Erode 638002; Ph: 75214, 75215, Gram: Poultry (10,000 L).

Magalaxmy PF, PO Kagam 638109; Prop: E K Paramasivam (5,400 L).

Malliga PF, Kandampalayam 637203, Perundurai Tq, Periyar Dist; Ph: 239 — K P Palanisamy (10,000 L).

Muthusamy Gounder, A P, K Ayyampalayam PO, Via K N Puram, Palladam Tq 638662; Ph: 57 (5,000 L).

N S & Sons, Chavadipalayam Pudur, Periyar Dist; Prop: E S Elango (5,000 L).

Nandhini Poultry, 36 Mangalam Rd, Tirupur 638604; Ph: 20936; Prop: K N Shanmuga Sundaram (15,000 L).

Natarajan PF, PO Vedapatty, Via Thondamuthu, Cbe Tq (6,000 L).

National PF, 160 Kunnathur Rd, Perundurai 638052 — Dr P Bose.

Niranjana PF, V K Palayam, PO Puliampatti, Karadibavi 638658; Prop: C Gopalakrishna (9,000 L).

Om Murugan Enterprises, No 60 Canal St, Gobichettipalayam 638452 (6,000 L).

P V S PF, Tobaco Merchant, PO Vadugapalayam PO 638664 — P V Sundareshvaran; Ph: 103 (4,500 L).

Pichanur PF, Hotel Irani, 193 Oppanakara St, Cbe -001; Ph: 25396; Prop: Mohamed Koya (5,000 L).

Pongalur PF, Pongalur 638667; Ph: 716725, 35 (farm) — V Leelakrishnan (7,000 L).

Poultek Engineers PF, Edigarai Rd, NDDO Colony, Cbe -022 — Palnisamy (2,500L).

Priya PF, Kolathur, Via Mettur — Sivaraman (10,000 L).

Priya PF, Near Bus Stand, Perundurai, Periyar Dist (3,000 L).

Puvanasvari PF, Valaithottam, Via Sinagiri, Erode RMS 638001 — K P Duraisamy (5,000 L).

Radhakrishnan, V, "Anugraha", Avanashi Rd, PO Peelamedu, Cbe -004; Ph: 33044 (9,000 L).

Raja PF, 17/150 First Floor, Oppanakara St, Cbe-001—Ravichandran (7,000 L).

Raja PF, Chettipalayam -201, Podanur, Cbe (5,000 L).

Rajamani PF, Alamgium Rd, Dharapuram 638656; Ph: 433 (5,000 L).

Raja Rani PF, Alamdu, PO Elumatthur, Erode 638104; Ph: 12 (Modakkurichi) — B Chinnadorai.

Raju PF, Ganapathipalayam PO, Periyar Dist (2,000 L).

Ramu Brothers, Vadamadurai, Cbe -017 (5,000 L).

Rani Poultries, PO Pasur 638154, Erode Tq; Ph: 48 (PP) — Smt P M Gopalan(8,000 L)

Rasi PF, Ganapathipalayam PO 638153, Periyar Dist; Prop: G K Ramalingam(3,000 L).

Regal PF, 12/66 Idigarai PO, Cbe -031; Ph: 89-210 (off); Partner: I R Damodaran (10,000 L).

Royal PF, Veerachimangalam, Palakkarai PO, Thudupatty Via, Perundurai Tq, Periyar Dist — Chelladurai (6,000 L).

S P S Farm, Saganipalayam, Ellis Nagar PO; Prop: P Suppsamy (2,000 L).

Sakthi PF, Palakkari Post, Via Perundurai, Erode (RMS) 638057 — P M Lakshmanan (7,500 L).

Sankar PF, Saminathapuram, Mudakhurnehi Via, Periyar Dist — S G Muthusamy (2,000 L).

Saroj PF, Ganapathy Post, Cbe -006 — T V Cherian (5,000 L).

Sarojini PG, K Ayyampalayam PO, Via K N Puram, Palladam, Cbe 638662 (8,000 L).

Senthl PF, Alangiyam Rd, PO Dharapuram 638656; Prop: R Rajamani; Ph: 543, resi: 462 (3,500 L, 4,800 B/year).

Senthil PF, 12 Tirichy Rd, Palladam 638664; Ph: 24, 15; Prop: K Palaniswamy(8,000L).

Senthil PF, Muthandi Palayam — Ponnusamy (4,500 L).

Sevak Poultry Home, K Pappampalayam, Erode 638007; Ph: 73034; Prop: K Gunatharan (12,000 L).

Shakti PF, Palávarai, Perundurai, Periyar Dist — Lakshmanan (16,000 L).

Shanmuga Sundaram, Mangalam Rd, Tirupur (7,000 L).

Shantha PF, PO Thamaraipalayam 638151 — S Palaniappan (1,500 L).

Shanthy PF, Erode Trunk Rd, Perundurai 638052 (5,000 L).

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Sundareswaran PF, PO V Vadugapalayam, Palladam Tq (6,000 L).
Thangam PF, Geetha Gardens, Vadakku Thottam, Malumichampatty PO, Cbe -021; Prop: I Charlesmani.
Thangam PF, Surian Kadu, PO Kagam 638109 — E K Ramalingam (3,000 L).
Tirupur Dairy & PF, 15 Sarmiyan Sahib Rd, Tirupur 638604; Ph: 20094, 20254; Mg Partner: A P Marappan (12,000 L, 7,500 B).
Tirupur Poultry Breeders Coop Society, Tirupur 638601; Pres: C Masilamani.
Universal PF, Kunnathur Rd, Perundurai 638052; Ph: 356; Farm: Seelampatti, Perundurai Tq — Dr P Bose (3,000 L).
Vadivelan PF, Solongapalayam, PO Pasur 638154; Prop: S K Chinnusamy (1,000 L).
Valarmadi PF, Vellodu 624307, Erode Tq — Ponnusamy (10,000 L).
Valaramathi PF, Sadayampathy, Perumanallure, PO Karunampathy 638666; Prop: A Subramaniya Gounder (2,000 L).
Varadharajan PF, Madhanaickenpatty, Kuttampatty PO, Tharamangolam Via, Periyar Dist (4,000 L).
Vellaisamy PF, Veerappanpalayam, Nathagoundenpalayam PO, Periyar Dist (2,000 L).
Velvan PF, Surianallur PO, Kundadam 638702 — R Velusamy.
Vijay PF, Chella Kumarapalayam, Pondurai Semoor Post, Erode — S K Ponnusamy (6,000 L).
Vijaya Raman PF, PO Pasur 638154, Erode Tq — Vijaya Raman (4,000 L).
Vijayaragavan, Belappanaicken, Palayam (3,000 L).
Viswanathan, K P, Thaththarakadu, Karavalasu, Valaithottam Post, Sivagiri Via, Erode (3,000 L).
Vivekanandan, S, s/o R Sivasubramaniam, 8/15 Kinathang Kattuputhur, PO Malayam Palayam 638156; Prop: R Sivasubraniam (1,000 L).
White House PF, 4A/503 NGGO's Colony, Cbe -022; Prop: A Mariappan (3,000 L).
White Shell PF, 2/2 Pallakattu Thottam, PO Keeranatham, Via Saravanampatti, Cbe -035; Prop: K Palanisamy (4,000 L).

DHARMAPURI (Pin: 636---)

Mohan, K, Battawarthi, Jammanahalli PO 636904, Via Menisi (700 L).
Prabhakaran G, Goundampatti, Pudupatti Post, Harur Tq (1,200 L).
Valarmathi PF, 18-A, DDA Bldg, Krishinagiri 635001.
Walia PF, PO Jammanhalli, Via Menisi — H R Walia (2,500 L)

KAMARAJANAR (Pin: 626---)

Alfa PF, 26-A North Sammandapuram, Rajapalayam -117; Ph: 2709 — A Satayanarayana (8,000 L, 2,000 B).
Arjuna Raja, P V, 237 Madasamy Koil St, Rajapalayam -117 (1,400 L).
Arunachalam, T K A M, c/o New Muthu Talkies, PB No 22, Virudhunagar -001.
Chidambaram, A A, Near Old Railway Colony, Virudhunagar -001 (2,000 L).
Durai Raja, K A, 229 Madanasamy Koil St, Rajapalayam -117; Ph: 2173 (8,000 L, 1,000 B).
G R Farms, Teachers Colony, Satchiyapuram, Sivakasi -123 — G Rangasamy.
Jothiraj's PF, Thiruvalluvar Nagar, Usalampatti -532.
Karthik PF, P S K Nagar, Rajapalayam — K S Ramachandra Raja (7,000 L).
Karuppaiah, A K, Grocery Merchant, Srivilliputtur -125.
Kolanda Raja, K S, 18 Ramasamy Kovil St, Pudupalayam, Rajapalayam (3,000 L).
Krishnamoorthy, A A, Near Old Railway Colony, Virudhunagar -001 (2,000 L).
Laxmi Poultry & Dairy Farm, Manlithope, Kovilpatti 627701 — Rajashekaran.
Manimehalai PF, Madurai Rd, Srivilliputtur -125; Prop: K Kanthimathiammal (500 L).
Modern Farms, Krishnapuram, Maharajapuram, Srivilliputtur -125 —S A Sunder Rajan.
Narayana Raja, P K, 16A, TB Mills Rd, Rajapalayam (3,000 L).
Parasakthi PF,Rajapalayam 626117 — S V S Poopalraja (5,000 L).
Pioneer PF, 9-1-71 N P K Rajaratnam St, Sivakasi -123.
Prithvi Fire Works Industries Pvt Ltd, Prithvi House, 7-9-48 Pettai St, Sivakasi -123.
Pusha PF, Nesamani,Nagar Kovil, Kanyakumari 629702 (2,000 L).
Radhakrishnan, S, 15 Keelakadai St, Virudhunagar -001.
Raja PF, 53-A By-Pass Rd, Sattur -203.
Ramakrishna, S P, Bharathi Nagar, Rajapalayam -117 (1,000 L).
S M D Ragavan & Bros, 69 Railway Feeder Rd, Virudhunagar — S M D Ragavan (2,500 B).
S S Farms, 5L-I Soundrapandian Rd, Virudhunagar -002.
St Joseph's Convent's PF, Theni Rd, Usalampatti -532.
Santhil Murugan PF, 317 Kovil St, Sammandapuram, Rajapalayam -117 — K Ponnusamy (1,000 L).
Selvapriya PF, Thalavaipuram, Rajapalayam — G Gurusamy (5,000 L).

Soundravathani, Smt, c/o A S Selvarajan, 5L-I, Soundrapandian Rd, Virudhunagar -002; Ph: 4252, 4353 (4,000 L).
Sri Ganeshvari PF, Rajapalayam -117 — K S Ramachandra Raja (1,500 L).
Tanjore PF, Srivilliputtur -125 — S K Shridhar (2,500 L, 3,000 B)
Thiagarajan PF, 141 West Vaithianatha-puram St, Rajapalayam -117; Ph: 2002 — P Thiagarajan (12,000 L).
Thirupali Raj, P K, Contractor, 28 Dhara-puram, Rajapalayam (1,000 L).
Velumurugan PF, c/o T M M Umakanthan & Co, 25 Krishnamachari Rd, Virudhunagar-001.
Vigneswara PF, 12 M C C St, Virudhunagar -001 — R Nagarajan.

KANYAKUMARI (Pin: 629—)

Pioneer Kumarsamy College Poultry Unit, Nagercoil -003.
Sri Pushpa PF, 14F Nesamani Nagar, Nager-coil -001; Ph: 2879 — S W Challam, C C Mohan (2,500 L).
Y M C A PF, PC Marthandam -165.

MADRAS (Mds) (Pin: 600—)

AKL PF, Mettukuppam Vill, Mds -096 — A K L Dhilip Kumar.
Aseervatham PF, 19 Malaviya Avenue, Lat-tice Bridge, Thiruvanmiyur, Mds -041; Ph: 411159 — Joseph Albert (8,000 L).
Bala Murugan PF, Balamurugan Nagar, Attanthangal, Mds -067 — P Periannan.
Ceebees Farms, Vill Kottiwakkam, Mds -041; Ph: 412039; Mg Partner: S Srinivasan (10,000 L, 500 B/week)
Chockalingam, Dr V, 8A Runganathan Rd, Annamalai Nagar 608002.
Devi PF, 4-1 Main Rd, United India Colony, Kodambakkam -024 — Smt V Padmasani.
Eswara PF, Mettukuppam, Mds -096 — Chandrasekar.
Golden Egg Poultries, 47 Ponappa Chetty St, Mds -003; Ph: 34467; Partner: P S Sridhar; Farm: Mootaikaran Chavadi, Mds -096 (7,500 L).
Instant Foods & Allied Industries Pvt Ltd, Room No 5, Rajan Bldg, 163 Mowbray's Rd, Alwarpet, Mds -018.
Janardhanan, Poultry Farmer, Sholinga-nallur, Mds -096.
Kamalam PF, 43-A Santhi Nagar, Vysarpadi, Mds -039 (3,000 L).
Kareem, Ameerul Abdul, 1/37 Venkatachala Mudali St, PB No 519,Mds-003(6,000 L).
Kripa PF, Semencheri, Mds -096 — Raja-ratnam (5,500 L).
Krishna PF, 2nd Beach Rd, Thiruvanmiyur, Mds -041 — Krishnamurthy (6,000 L).
Machvey PF, Uthandhi Vill; Ph: 414276 — Smt Shuba Kakdey.
Madhu Farms, Plot No 3020 Baba Nagar, Villiwakkam, Mds -049; Ph: 665045 — P Venugopal.
Mahalakshmi PF, 149 Banu Nagar, Orogadam, Ambattur, Mds -053.
Matha Farms, Alamadi, Red Hills, Mds -052; Ph: 420470 — P R Kesavulu.
Meenakshi PF, Okkiampettai, Perungudi PO, Mds -096 — P Parthasarathy.
Modern PF, 13/23 Merit Colony, Vepery High Rd, Mds -007; Prop: Y S Shafeeuddin.
Mcti Pvt Ltd, 28 Saravanna Mudali St, T Nagar, Mds -017; Ph: 440025; Mg Dir: C Ramakrishna; Farms: Red Hills, Tri-vellore Rd, Mds -052; Ph: 67336 (15,000 L & B).
Munuswamy, Poultry Farmer, Okkiampettai, Perungudi PO, Mds -096.
Muthukrishnan, Poultry Farmer, Sholinga-nallur, Mds -096.
Navalur Farms, 46 Sheikh Maistry St, Roya-puram, Mds -013; Ph: 551483; Farm: Vill Navalur, Dist Chinglepet — Nazeem Ibrahim.
Poultry & Dairy Farm, 158 Linghi Chetty St, Mds -001; Ph: 26293, 25351; Farm: Chingleput; Partners: K J Ramaswamy, K J Seetharaman; Mgr: V R P Mani (15,000 L). See: Chingleput Dist.
Prasad, Y Ramakrishna, 23 Nungambakkam High Rd, Mds -034 (3,000 L).
Raja Rajeswari PF, Sholinganallur, Mds-096 — K H Prasad.
Ramaraj PF, 18 Main Rd, Dr Radhakrishna Nagar, Mds -041; Ph: 411307; Farm: Vill Egattur — S Venkataraman & S Thiyagarajan (8,000 L).
Ricch PF, 148 Old Mahabalipuram Rd, Thorai-pakkam, Mds -096; Ph: 417952.
Sambandan PF, 37/1 Adanja Mudali St, Mds -028; Prop: V Sambandan; Farm: Moottai-karan Chavdi, Mds -096 (3,000 L).
Senthil PF, 43-A Shanti Nagar, Vyasarpadi, Mds -039 (3,000 L).
Shrevas Farm, 42 Vellanur, Avadi, Mds -062 — T S Amritham.
Siddharth Agencies, 158 Linghi Chetty St, Mds -001; Ph: 26293; Partners: Smt Lalita Seetharaman, Smt Kalpana Ramaswamy (25,000 L). See: Chingleput Dist.
Southern Farm, 110 Velachery Rd, Guindy, Mds -032; Ph: 414896, 415597, 86243 (resi); Farm: PO & Vill Kottivakkam, New Mahabalipuram Rd, Mds — Smt V A Kurien (6,000 B).
Southern PF, 14-B Bashim Basheer Ahmed St, Mds -018; Ph: 447358; Farm: Vill Nan-dambakkam, Mds -069 — M I A Kareem (6,000 L).
Sri Lakshmi Farms, Alamadi, Mds -052; Ph Farm: 680086, resi: 479792; Mg Partner:

C S N Murty (15,000 B).
Srinivasa PF, Mootaikaran Chavdi, Mds -096 -- V Radhakrishnan.
Srinivasa PF, Sholingallur, Mds -096 -- P Ramasamy (2,000 L).
Srinivasa PF, Plot No 25, Bank Colony, PO Madavaram Milk Colony, Mds -051; Ph: 64562 -- N L Naravana (1,100 L).
Subramaniam Naicker, Poultry Farmer, Sholingallur, Mds -096.
Thirumurugan Pannai, Bala Murugan Nagar, Attanthangal, Mds -067 -- Ramanathan (4,800 B).
Triple SSS Broilers (a unit of ABC (India) International), 37 Harleys Rd, Kilpauk, Mds -010; Ph: 470998, resi: 612846, 613869; Mg Partner: Syed Ibrahim. See: Chingleput.
Velver Farms, Red Hills, Trivellore Rd, Mds -052, Ph: 63039; Prop: Smt R Venkatnarayan (7,000 L).
Venkat Farms, 36 Dr Radhakrishnan Nagar, Tiruvanmiyur, Mds -041; Ph: 411562; Prop: V Krishnamurthy; Farm: Vill Semancheeri, Mds -096.
Venkatesh Poultry & Dairy Farm, Mudichur Rd, Old Perungalathur, Mds -063; Ph: 48420 -- G Shanmuga Sundaram.
Vijay PF, 26 Prakash Mudali St, T Nagar, Mds -017; Ph: 442198 -- T Narayana Rao.
Vijaya Dairy & PF, Vijaya Gardens, Arcot Rd, Vadapalani, Mds -026; Ph: 420095 -- B Rajani Saraswathi (2,000 L, 8,000 B).
Vijaya PF, Koyammbedu, Via Madhuravoyal, Mds -107 -- Laxmi Narayanan.
White Shell PF, c/o Adyar Bakery House, 10 Sardar Patel Rd, Adyar, Mds -020; Ph: 414039; Prop: G Ranganathan (5,000 L). See: Chingleput.

MADURAI (Pin: 625---)

Boys Town Farm, Nagamalai, Madurai -019; Ph: 26387; Mgr: Br Joaquin, FSC.
Gauri PF, 4-A Theppakulam, Araipanodi Rd, Pandian Nagar, Madurai -001.
Gnanam's PF, Thenur, Madurai (3,000 L).
Hytone PF, Plot No 114-B, near Mosque, Alwar Nagar Colony, PO Madurai -019 -- M R Gnaanamani.
Karthikeya PF, Kodaikanal Rd, Palani (5,000 L).
Kumara Guruparam, Kootampatti (3,000 L).
Leonard Convent Poultry Unit, Kosakulampudur, Madurai -007.
Mathews, Dr George, Virudhunagar, Madurai (3,000 L).
Michael PF, Thiruvelluvar Nagar, Usilampatti 626532 -- Smt Nirmala Jothiraja.
Raj PF, Pattiveeranpatti (4,000 L).
S H F PF, 6-B, K K B Lane, East Sandaipet, Madurai -009 (1,800 L).
St Joseph's Boys Village PF, Ganguvarpatti 624203 -- Rev Bro James Kimpton.
Selvi PF, Naganagar, Arappalayam, Madurai -016 -- Amratham.
Shri Mappilai Vinayagan's PF, 163 Dindigul Rd, Madurai -006.
Sree Palanimuthu PF, Alathikampatti, Kannivadi 624705 -- A I Rajagopal.
Tamil Nadu Theclogical Seminary PF, Arasaradi, Madurai -016; Principal: Dr Samuel Amirtham (2,000 L).
Thiagarajan, Rajapalayam, Madurai (8,000 L).

NILGIRIS (Pin: 643---)

Abimanan, C, Milk Tester/ULW, Balaccla, MPCS, Balacola PO -203.
Janaki Soundararaj, Smt, Crosley Estate, Kotagiri -217 (1,500 L).
Mountain View Poultry Unit, Wellington-231.
Tirumal Traders, 41 Mattur Rd, Sivagiri.

NORTH ARCOT (Pin: 632---)

Bharath Poultry & Piggery, Jolarpet Rd, Tirupattur 635601.
Christian Medical College & Hospital Poultry Unit, Vellore -002.
Ruhsa PF, P K Puram, Kavanur, Via K V Kuppam 632201; Ph: 52, 53, 54; Programme Dir: Dr Rajaratnam Abel; Mgr, Gen Admn: John Adwin (500 L, 1,000 B)
Rural Extension Training Centre PF, Satyavizianagaram 632317.
Sagayathottam PF, Agril Trg Schcol, Sagayathottam, Takkolam 631151 -- Fr John Nedumpuram; Ph: 33 (500 L).
Town PF, 7 Nehru Rd, Vaniyambadi 635751; Ph: 700 -- P T Reddy (2,200 L).

SALEM (Pin: 636---)

Amman PF, PO Thoppar Ariyur, Namakkal Tq -- S Karuppaiah (4,000 L).
Anbu PF, Pudu Palayam, PO Bairoji -308; Prop: N Sengottuvel (1,200 L).
Andavar PF, Senkuthikadu, PO Munjanoor; Prop: S Natarajan (22,000 L).
Andavar PF, PO Omalur 635455 -- D Umapathi (15,000 L).
Anna Farm, PO Omalur -455; Prop: M Srikrishna (12,000 L)
Annai Poultry Corpn, 14/1 Paramathi Rd, Namakkal 637012 -- K Venkatachalam & R Veerappan, Ph: 215 (5,000 L).
Appuchi Gounder, c/o D Tamilarasan, Chinnamanali, Vaiyappamalai Post (6,200 L).
Appusamy, s/o Kaliyanna Gounder, Pudupatti, Yelur Post, Namakkal Tq (15,000 L).
Arjunan, s/o Paramasiva Gounder, Sengappalli, Kadhappalli Post, Namakkal Tq.

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Babu PF, Minnampalli, Vaiyappamalai — Palanivel (2,000 B).
Balakrishnan PF, Elachipalayam PO; Prop: Balakrishnan (2,500 L).
Balu PF, 3/51 Rasipuram Main Rd, Vaiyappamalai 637410; Prop: K Rajasekaran (4,500 L).
Balu Poultries, PO Kanavaipatty, Mohanur Rd, Namakkal 637020, Via Valayapatti; Ph: 2393 — P Perumal (35,000 L).
Bangaru Chetty, S, Main Rd, Shevapet, Salem (30,000 L).
Chellapan, s/o Sengoda Gounder, Naikkadi Pudur, Akkalampatti Post, Namakkal Tq (5,000 L).
Chinna Samy PF, PO Kanavaipatti, Via Valayapatti, Namakkal Tq (10,000 L).
Chinnu, K K, PO Vellakkapaty 637406 (3,000 L).
Chinnappagounder PF,Minnampalli, Vaiyappamalai -- Shunmugam (2,500 L).
Devarajan, M P, s/o Ponnusamy, PO Mudalaipatty 637003, Namakkal Tq (14,000 L).
Devendran, K, s/o Kalianna Gounder,Puliampatty, PO K Puduppalayam, Namakkal Tq (15,000 L).
Dhamothiran PF, Kandipalayam, Jedarapalayam PO, Thiruchengode Tq — P Muthusamy (5,000 L).
Duraisamy, R, s/o Ramaiah Gounder, Anandagoundampalayam, PO Minnakkal 637505, Rasipuram Tq (6,000 L).
E N K P Farm, Karaiyampudur, Muthalaipatty Post,Namakkal Tq--Nallathambi(7,000 L).
Eeorr PF, 37 Subramanyapuram, PO Mohanur 637015; Prop: E Ramasamy (3,200 L).
Eraka PF, Bungalow Kadu, PO Deevattipatty 636351 — R Natarajan; Ph:44 (2,500 L).
Fair Lands PF, 17 Fort Main Rd, Shevapet, Salem -002 -- S Bangaru Chetty.
Ganesh PF, Udduppam Post, Sellappampatti, Namakkal 637019 — N Ponnusamy.
Imperial PF, 77 Newpet, Attur 636141; Prop: A Palani; Ph: 306 (500 L).
Jaya PF, PO Karuppureddiyur 636404, Via Gonur; Prop: K S Kandasamy (2,000 L).
Jayam PF, Eraiyampatty, PO Bommanpatty 637212, Via Velagoundampatty; Prop: P Ramajayam; Ph: 2119 (Nam) (16,000 L, 2,000 B).
Jayalaxmi PF, Alavaipatti PO, Via Vennendur, Rasipuram Tq--Ponnusamy(10,000 L).
K G PF, Salem Rd, Namakkal; Prop: Parthypan (12,000 L).
K J P PF, Tirumalaikadu, O Sowdapuram PO, Via Venenpur; Prop: C Mani; Ph: 18 (Venentur) (4,500 L).
Kali Gounder & Bros PF, Elachipalayam PO (3,000 L).
Kalaivani PF, 142 Salem Main Rd, Samiyan Thoppu, PO Namakkal; Prop: P Ponnusamy (12,000 L).
Kalianam, V, Kancranaickampatti, Senuturanganpatti PO, Via Mohanur.
Kaliannan, P, s/o Palani Gounder, Athimarathu Kadu, Thathathripuram, Elur Post, Namakkal Tq (5,000 L).
Kaliappan, P, Vadakkutheru, Pottanam, PO R Pottanam, Rasipuram Tq (5,000 L).
Kandasamy, Dr, s/o Athiyappan, Bommaikuttaimedu, Sellappampatti Via, Namakkal Tq (5,000 L).
Kandasamy, S, s/o Sengoda Gounder, Nallaya Goundampudur, PO Ladduvadi, Via Valayapatty, Namakkal Tq (7,000 L).
Kandasamy,Teacher, s/o Ramasamy, Vadakku Thottam, Thalambadi Post, Namakkal Tq (6,000 L).
Karuppamam, K, Kancanaickampatti, Sevuturanganpatti Post, Via Mohanur.
Karuppammal PF, Paramathi Rd, Namakkal -- Kailasam (7,500 L).
Karuppayee Ammal PF, 1st Km Paramathi Rd, Namakkal 637002 — Ponnammal; Ph: 2217 (12,000 L).
Kasonagaraj, R, 2/91A Nachipatti Grass Rd, Vennandhur PO 637505 (10,000 L).
Kathan PF, Manathal PO 636503 — V Kathan (2,400 B).
Kavitha PF, Allalapuram, Velegoundampatti, Thiruchengode Tq — A M Raju (10,000 L).
Komaru Gounder, s/o Periyasamy, Eran Kadu, Vellakal Patty PO,Rasipuram Tq(6,000 L).
Kongunadu PF, PO Keerampur, Via Paramathi, Namakkal Tq (20,000 L).
Kumareshan, K, s/o Karuppa Gounder, Marurpatty Post, Sellappampatti Via, Namakkal (8,600 L).
Kuppusamy, P, Poondipalayam, Kumaripalayam PO, Via Mohanur.
L S P Poultry & Dairy Farm, 75 Main Rd, Suramangalam, Salem -009.
Lakshmanan, s/o Periannan, Periyur Thummankurichi, Namakkal Tq (12,000 L).
Lakshmi Agencies, Perumbalipatty, Elur Post, Puduchatram Via, Namakkal Tq -- R Ramalingam (20,000 L).
Lakshmi PF, Alavoipatti, Via Vennandur 637505; Prop: S Ponnusamy (5,000 L).
Lakshmi PF, Pappanaickampatty, Muthalaipatty Post, Namakkal Tq (10,000 L).
Laxmanan, V M, Periyur, Iyampalayam Via, Namakkal (6,000 L).
Mani, M S, s/o Muthusamy Gounder, Karaiyampudur, Muthalaipatty Post, Namakkal Tq (15,000 L).
Mani PF, Eranapuram 637003; Prop: S Mani (2,000 L).
Mani PF, c/o Sengoton, Nachipatti Cross Rd, 2/91A, Vennordher PO, Rasipuram PO

637505 (5,000 L).

Manohar PF, Karuppattypalayam, Nallipalayam 637016, Namakkal Tq; Ph: 2701 (off), 2601 (farm) — K V Mohan (60,000 L).

Marimuthu, s/o M Ramasamy Gounder, Sevagoundanpalayam, Kolathupalayam PO (7,000 L).

Murasu PF, Thiruvalluvar Colony, Boothupatty Rd, Namakkal; Prop: Pari Perumal (17,000 L).

Murgan PF, PO Ayyampalayam, Namakkal Tq — Sengodan (13,000 L).

Murugan Poultry, 70C Salem Rd, Namakkal 637001 — M K Palanisamy.

Murugeshan, s/o Ramasamy Gounder, Sevettu Rengan Patty, Kankani Patty Post, Mohanur (10,000 L).

Murugeshan PF, Thuraiyur Rd, Namakkal; Prop: Dr M A Mithusamy (9,000 L)

Muthukumar, s/o Periasamy, Chinna Kakkavery, Vellakalpatty Post, Namagiripet Via, Rasipuram Tq (6,000 L).

Muthunaickaer, S, s/o Chinnamanaicker, Eachauri, PO Thottipatty, Namakkal (7,500 L).

Muthusamy, s/o Pananigounder, Periyagoundempatti, Namakkal Tq (7,000 L).

Muthusamy, s/o Sellappagounder, Sevagoundanpalayam, Kolathupalayam Post, Namakkal Tq (8,000 L).

Nachiappen, Dr, Hotel Dwarka, Salem -004; Ph: 7474 (6,000 L).

Nallapulliamman PF, Olaipathyarkadu, Vennandur (Via), PO Kalkattanur 637505 — A Palanisamy (2,500 L).

Natesan, S G, s/o Gurusamy, Perumal Kovil Medu, PO Karaikurichi, Via Pudurcharam, Namakkal Tq (19,000 L).

Natesan, V P, Poultry House, K Vellalappaty PO, Via Belukurichi, Namakkal Tk 637402; Ph: 87 (5,000 L).

Omalur PF, PO Omalur 636455 (16,000 L).

P P Selvam PF, Pappinaickenpatty, PO Mudalaippatty 637016, Via Namakkal; Ph: 2622 (off), 2776 (resi); Prop: Dr P Selvaraj (40,000 L).

P R Samy PF, Mollakkalkadu, Nadupatti,PO Alavaipatty 637505; Prop: P Rangasamy (4,500 L).

PSV PF, Chinna Thaligai, PO Thaligai, Namakkal Tq; Ph: 39 (Velagoundampatti) — K Ramasamy Gounder (20,000 L).

Paguthariyo PF, Elakkam Palayam, PO Podupatti, Namakkal Tq; Ph: 2528 (Namakkal) — A Vangili Gounder (15,000 L).

Palani Andaver PF, Thuraiyur Rd, Namakkal — N Kosavampatty (6,000 L).

Palaniappa PF, Mudalippatty, Namakkal 637001 — P Annaiappan (6,500 L).

Palaniappan, s/o Kolanda Gounder, Kavettipatty, Vallipuram Post, Namakkal Tq (7,500 L).

Palaniappan, M, Seethappatti, PO Mohanur.

Palaniappan, s/o Kalianna Gounder, PO Kolaram Serukalai, Namakkal Tq (10,000 L).

Palaniappan, S, s/o Sreerangam Gounder, Kottupalayam, PO Illanagar, Via Velagoundapatti 637212, Tiruchengodu Tq (4,000 L).

Palanisamy, P, s/o Veerappa Gounder, Kavettipatti, Vallipuram PO, Namakkal Tq (8,500 L).

Palanisamy, S, c/o Senogoli Gounder, Door No 7, Konar St, A S I Pettai, Namakkal 637001 (4,500 L).

Palanivel PF, Eraikkaddu, PO Minnakkal 637505; Prop: P Palanivel (1,500 L, 1,000 B).

Palanivel PF, Nochipatty, PO Kalyani 637025 — R Palanivel; Ph: 64 (1,000 L).

Palaniyappan, s/o Raja Gounder, Rajagoundanur, Puduchatram PO, Namakkal Tq (22,000 L).

Paneerselvam PF, 77 Dhevangam Pilliar Koil St, Shevapet, Salem -002; Ph: 8777 — K Paneerselvam (4,000 L).

Pappathi PF, Vill Periaiyyampalayam, PO Nalipallayam 637016, Namakkal Tq (15,000 L).

Parasakthi Traders, Nallipalayam, Namakkal Tq; Prop: Sekar (10,000 L).

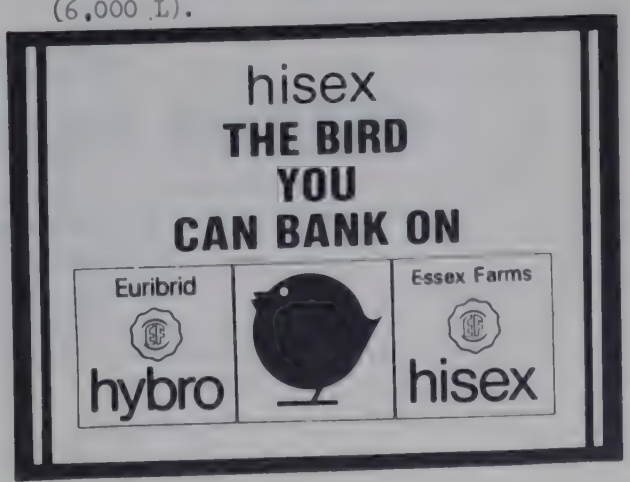
Pari PF, Podupatti Rd, Namakkal 637001; Ph: 2608 — R Perumal (15,000 L).

Perisamy PF, PO Thoppar Ariyur, Namakkal Tq — N R Perisamy (6,000 L)

Periyasamy, s/o Ramasamy, Govindampalayam, Konurpatty Post, Puduchatram Via, Namakkal Tq (10,000 L).

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Raja PF, 837 Newpet, Attur 636141; Ph: 287-687; Prop: Dr S Sundaram (12,000 L).
Raja PF, Kattur, PO Pudupatti 637407; Prop: P R Natarajan; Ph: 285 (6,000 L).
Raja PF, PO Puduchatram 637018, Namakkal Tq -- A Rajamanickam (13,000 L).
Raja PF, 5/A Jothi Talkies Rd, Salem -003; Ph: 66594 -- P L Rajan (5,000 L).
Raju, A M, Allalapuram, PO Bommanpatty, Tiruchengodu Tq 637212 (7,000 L).
Ramaiah, s/o Sellamuthu Gounder, Orathei, Thotakurichi Via, Karur (7,500 L).
Ramaiah, s/o Kaliannan, Therkuorathai, Orathai PO, Karur Tq (12,000 L).
Ramajayam, P, s/o Periannan, Therkku Kadu, Eraiyampatty, PO Bommampatty 637212, Tiruchengodu Tq (9,500 L).
Ramasami & Bros, PO Puduchatram, Prop: R Ramasami; Ph: 29 (4,000 L).
Ramasamy, Saw Mill, Vaiyappamalai Post, Thiruchengode Tq (5,000 L).
Ramasamy PF, 23-A Paramathi Rd, Namakkal; Prop: S Ramasamy; Ph: 2840, resi: 3140 (10,000 L).
Rangasamy, M, s/o Masla Naicker, Kudhiraichinnampatti, PO Kullamanilikenpatty 637412 (2,000 L).
Rangasamy,Teacher, Palakadu, Periyamanali, Kunjapalayam, Vaiyappamalai Post (5,000 L).
Rani Poultry, Periyur, Namakkal Tq, PO Thummbnkurichi 637003; Prop: Lakshmanan (12,500 L).
Rani PF, Tharamangalam PO, Omalur Via, (6,000 L).
Ravi PF, Kanavaipatti Post, Mohanur Rd, Namakkal Tq -- Ravi (21,000 L).
S P & Sons Farm, Sangarampalayam, Kumaripalayam PO, Mohanpur 637015; Prop: S Ponnusamy; Ph off: 16 (Mohanur) (5,000 L).
Saileswaran, Dr N, 31A Neikkenapatti, Salem -010; Ph: 52915, 7127 (5,000 L).
Sakthi PF, PO Thengalapalayam; Prop: Dr K Arunachalam; Ph: 54 (5,000 L).
Salem PF, 137 First Agraharam, Salem -001; Prop: Smt Pushpa S Bhatija (4,000 L).
Samian PF, 142 Salem Main Rd, Namakkal 637001; Ph: 2835; Prop: P Vangili (8,000 L).
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Saravanan PF, Salem Rd, Namakkal; Ph: 2868; Prop: R Ramasamy (10,000 L).
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Selvan PF, 115-A Paramathi Rd, Namakkal -- S Palani (10,000 L).
Selvi PF, R P Pudur, Namakkal; Ph: 2551; Prop: R Nanda Rajan (5,000 L).
Sengodan, Periya Ayyan Palayam, PO Nallipalayam 637016, Namakkal Tq (4,000 L).
Sengotaiyan, Sevagoundampalayam, Kolathupalayam Post, Namakkal Tq (12,000 L).
Senthil PF, Anbu Illam, PO Vennandur 637505, Rasipuram Tq; Ph: 27 (Attaiyampatti) -- S Kandasamy (20,000 L).
Shanmugam, s/o Ramasamy, Ramavarampudur, Namakkal Tq (9,000 L).
Shanmugam, s/o Ramasamy Gounder, Iyya Thottam, Gurusampalayam Post, Rasipuram Tq (10,000 L).
Shanmugasamy's PF, Salem Rd, Namakkal; Ph: 2605; Prop: K Ramamurthy (7,000 L)
Shanti PF,Bochaipatty,Namakkal Tq(7,500 L).
Shevaroy PF, S No 18, Nagaramalai Adivaram, Kattur, Alagapurampudur PO, Salem -004; Ph: 7996 (farm), 63800 (resi); Partners: A Ethirajan, A Prakash & A Selvarajan (20,000 L, 2,000 B).
Singaraju, s/o Karuppanna Gounder, Marurpatty Post, Sellappampatty Via, Namakkal (22,000 L).
Siva Sathai PF, Ananda Goundampalayam, Vernandur Via, PO Minnakkal 637505; Prop: R Duraisamy (5,000 L).
Sre Lakshmi PF, 2/131 Alagapuram Main Rd, Salem -016 -- A Shanmugam.
Sri Pachiamman PF, 232 Chinnakkadai St, Salem -001; Prop: Dr M Manickam; Ph: 66945 (PP) (3,000 L).
Sri Palaniandavar PF, Sanan Thottom, Thandampalayam PO 638109; Prop: N Siva Subramaniam; Ph: 50 (Kasturi) (6,000 L).
Sri Sai PF, Vanakkaram Pudur, Puduchatram Post, Namakkal Tq (17,000 L).
Sri Sathi PF, PO Thengalapalayam, Rasipuram Tk -301; Prop: M Balasubramaniam, Ph: 34 (6,000 L).
Sri Venkateshwara Agencies, Kelakuttai, Kalangani Post, Namakkal Tq (5,500 L).
Sri Venkateswara PF, Kanavaipatty PO, Valayapatty Via, Namakkal 637020; Ph: 2393; Prop: Dr P Tamilarasan.
Sri Venkateswara PF, Yeraiyampatti, Velegoundampatti, Namakkal 637212 -- K S Ponnusamy (9,000 L).
Stalin PF, Kongulathur, Lathuvadi Post -- Devarajan (14,000 L).
Sterling PF, Kongalathur, Laddivadi PO, Via Vatayapatty, Namakkal 637022; Prop: P Thevaraj; Ph: 27 (25,000 L).
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Subramaniam, V, s/o Vangili Gounder, Nallaoyampatti, PO Parali, Namakkal Tq (7,500 L).
Sundaram, R, s/o Ramasamy Gounder, Kolaram Post, Namakkal Tq (7,000 L).
Sundharam, K, Aramathapalayam, Poosarikadu, PO Alavaipatty 637505 (4,000 L).
Tamilarasi PF, 141 Salem Rd, Namakkal; Ph: 2814; Prop: P Ponnusamy (3,000 L).
Thangam PF, Visanam PO 637405; Prop: V Ramasamy; Ph: 2636 (7,000 L, 3,000 B).
Thangamuthu, s/o Karupanna Gounder, Lakkiyampatti, Navanipallipatti, Namakkal Tq (20,000 L).
Thangavel, s/o Muthusamy, Kattupalayam, Namakkal Tq (5,000 L).
Thangavel, s/o Ramasamy Gounder, Thuthikulam Post, Kalappanayakkanpatti, Namakkal Tq 5,500 L).
Vangili Gounder, s/o Veerappa Gounder, Periyagoundanpatti, Namakkal Tq (5,000 L).
Varadaraj, s/o Kandasamy Udaiyar, Kosavampatti, S Uduppam PO, Namakkal Tq (10,000 L).
Varadarajalu, s/o Ramasamy, Muthumangalapatty, Mechery Via, Mettur, Mettur Tq (5,800 L).
Varatharajan Poultry, Periyur, PO Tummakurichi; Prop: R Varatha Rajan(2,000L).
Vasappan, V M, Swambanai Pudur, PO Mudalaipatti, Via Namakkal 637016(5,000 L).
Vel Murugan PF, Thambipadi Post, Omalur Tq — Rathinasamy (5,400 L).
Venkatachalam, s/o Kolanda Gounder, Kanavaipatty Post, Mohanur Rd, Namakkal Tq (7,500 L).
Venus PF, Kodichetty Patti, Via Namakkal 637001; Ph: 2215--P Veerappan(5,000 L).

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Chicks India PF, 10 Beach Rd, Cuddalore -001; Ph: 250 (farm), 18 (off) — A R Damodaran, B Radhakrishnan (3,500 L).
Neelapushna PF, 32A Shanmugaperuman St, Kilperumbakkam, Villupuram 605602 — Gnanam (1,000 L).
St Ann's Eggmore Farms, Tindivanam 604001 — Rev Fr V S Lourduswamy.
Salgan PF, Arakandanallur 605752, Tirukoilur; Ph: 47; Mg Partner: S Shanmugham.
Samant PF, Tindivanam 604001 — S D Samant (1,000 B)

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Parimala Agencies PF, 16 Giri Rd, Srinivasapuram,Thanjavur-001—Lakshmipathi.
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Orathai West PF, PO West Orathai 639113, Karur Tq; Prop: S Ramiah (10,000 L).
St Martin's Social Centre, Poultry Unit, Mambala Salar, Tiruvanaikoil, Tiruchy.
Vaitheeswaran, Dr, Vet Surgeon, Vet Dispensary, Puvalur 621712.

TIRUNELVELI (Pin: 627---)

Infant Jesus PF, Main Rd, Sendamaram, Sankarankoil Tq -756 — V Irudayaraj.
Meera PF, Plot No B-75, Maharajanagar, Tirunelveli -011; Ph: 5459 (3,000 L, 1,500 B).
Rajapalayam Boys Town Poultry Unit, Parakkudi, Sankaranayinarkoil -756 — A Rajendran.
St Joseph's Leprosy Hospital Poultry Unit, Arokiapuram, Tuticorin 628002.
Shanmugasundaram PF, c/o S K S Rajmani Nadar, 96 North Cotton Rd, Tuticorin.
Vel Murugan PF, Muditandal PO 628102, Tuticorin — R S Subbian Pillai (4,000 L, 1,000 B).

Information Databank

You will be surprised at the many, varied ways in which this *Yearbook* could be useful to you. For example, the standard guidelines for the appraisal of schemes as well as marketing potentials in different areas published in the *Yearbook*. Also, classified lists of livestock, feed, equipment and similar input suppliers to whom banks prefer to disburse directly the amount due to them on behalf of loanees. These and other features would make this reference compendium useful to your Technical Officers. Additional copies of the *Yearbook* can be had directly from the publishers.

Editor & Publisher
Indian Poultry Industry Yearbook
A-25 Priyadarshini Vihar, Delhi 110092

Uttar Pradesh

AGRA (Pin: 282---)

Dab Chick PF, 3/23 Chatta Ghat, Agra — Indresh Chander.
Kapoor Poultry, Near Water Tank, Chipitola, Agra; Ph: 61914 — Hans Raj Kapoor.
Nakai, Gen Golin S, H No 146, Sector 4, Vivah Nagar, Agra.
Pinki PF, 23 Lajpat Khanj, Agra -002 (2,000 L).
Saxena PF, 98 Kamla Nagar, Agra -001.
Shiraz Poultry & Agriculture Farm, Hotel Clark-Shiraz, 54 Taj Rd, Agra; Farm: Aratoni, Via Udyog Nagar, Agra -007; Mg Partner: Birendra Kumar (1,000 B/week).

ALIGARH (Pin: 202---)

Billy PF, Wazir Manzil, Marris Rd, Aligarh -- A Khan (1,000 L).
Kararíwal Milk & PF, Ramghat Rd, Aligarh -- P K Kararíwal.
King PF, Anoop Saher Rd, PO CDF; Prop: Musheer Ali Qureshy, Ph resi: 3624 (2,000 L).

ALLAHABAD (Pin: 211---)

Allahabad Agricultural Institute, Allahabad -007; Ph: 7380 (1,800 L).
Hind PF, 7A Sardar Patel Marg, Civil Lines, Allahabad -001; Ph: 3251 (off), 2188 & 2299 (resi). Branch: Jabalpur, Ph: 2996 — D N Misra, K N Misra & A Misra.

BAREILLY (Pin: 243---)

Hind PF, Vill Tulasherpur, PO Izatnagar; Prop: Smt Vidya Wati; Ph: 75016, resi: 72171 (5,000 L).
Kripa PF, Mohan Bhavan, 149 Civil Lines, Bareilly -- Kripa Kakkar (500 L).
Progressive PF, c/o Dr B S Agarwal, Isaiyon ki Pulia, Shahjehanpur Rd, Bareilly — R K Agarwal (4,000 L).

BASTI (Pin: 272---)

Shanti PF, Mali Tola, Purnia Basti, Basti -- T N Choudhury.

BULANDSHAHR (Pin: 203---)

Burney, O H, Krishna Nagar, S H Burney Rd, Bulandshahr.
National PF, Near Police Station, Bulandshahr Rd, Gulathi -908; Ph: 29 — K K Agarwal (2,000 L).

DEHRA DUN (Ddn) (Pin: 248---)

Chou Chick's Farm, 20 Turner Rd, Clement Town, Ddn (2,000 L).
Dabral PF, Nehru Gram, Ddn.
Gyaina PF, 457 Khurbura, Ddn-001(3,000 L).
Jassa Singh PF, Shergarh, Doiwala.
Legonia Poultry Products, 16 Chander Rd, Ddn -001; Ph: 4208 — G K S Mann (2,500 L).
Military Farm, Ddn -001 (4,000 B).
Parmanand Poultries, Majra, Ddn; Ph: 4420 — Ramswarup Parmanand (4,000 L)
Surjit Singh PF, Karanpur, Ddn.

ETAWAH (Pin: 206---)

Ajitmal PF, Janata D College, Etawah.
Sengar's PF, Vill & PO Malhausi -130, (Sahar), Rly Station Phaphund — H V Singh (8,000 L). See: Kanpur.

FARRUKHABAD (Pin: 209625)

Rajapur PF, PO Saurikh, Farukhabad — Balbir Singh (3,500 L & B).

GHAZIABAD (Gzb) (Pin: 201---)

Chaudhry PF, Vill Bameta Rashipur, Gzb — Sukh Pal Singh (10,000 L).
Fenag PF, 2 Subhash Main Market, R R Rd, Gzb; Ph: 2165 — K K Anand.
Krasti PF, 130-A Maliwara, Gzb.
Manjit PF, 11/12 New Delhi-Ghaziabad Link Rd, Opp Dabur Factory, Sahibabad Industrial Area, Mohan Nagar, Gzb -007; Ph: 202123 — Manjit Singh, Ph (Delhi): 621444 (resi) & 693071 (off) (20,000 L See: Delhi.
Mukherjee PF, Vill Bameta, Rahispur, Gzb (5,000 L).
Peters Farm, 88 Arya Nagar, Gzb -001; Prop: Smt Madhu Peter; Ph: 7044 (PP) (1,000 L, 6,000 B).
Yadav PF, Vill Sahapur, Baneta, Gzb -- Budhpal Singh Yadav (15,000 L).

GONDA (Pin: 271---)

Chishtiya PF, At Ramwapur Kalan, PO Utraula -604.
Pawar PF, Ramwapur Kalan, PO Utraula -604

GORAKHPUR (Gpr) (Pin: 273---)

Abdul Karim, Ram Nagar Karjaha, Khcra-Ba Block, Gpr (1,000 L).
Ahmed, Dr Aziz, Ghasi Katra, Gpr -001 (1,000 L).
Aubar Kamal, Ali Nagar North, Gpr (1,000
Banerjee PF, Clinic Dehar Bazar, Gpr -00 -- Dr Hemant (1,500 L).
Chandra PF, Gorakh Nath Rd, Ramlila Ground, Gpr -001; Ph: 1884 — Kailash (1,000 L).

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Charu PF, Civil Lines, Gpr -001; Prop: Satish Agarwal (2,000 L)
Engineer PF, Tiwaripur, Gpr (1,500 L).
Indra PF, Dairy Colony, Gpr (500 L).
Kaful PF, Gazi Kaja, Gpr -001 (2,000 L).
Manglani PF, Civil Lines, Gpr -001 (2,000 L).
Nand Lal PF, Humanpur, Gpr -001.
Prem Kumalhani PF, Mchiddipur, Gpr -001.
Ravi Kaul PF, Rampur Kohra Bar Block,Gpr.
Sarda PF, Mohidpur Crossing, Gpr.

HAMIRPUR (Pin: 210---)

Chaurasia, Ganga Ram, Malikpura, Mahoba -427 (300 L).
Chunni Begum, Smt, w/o Sri Haroon, c/o Md Guni Mcd, Haveli Darwaza, Mahoba -427 (300 L).
K B Farms, Mahoba -427; Prop: Yogendra Sharma; Ph: 56 (28,000 B).
Karim Bax, c/o Paliwal Traders, Gandhi Nagar, Mahoba -427 (500 L).

JHANSI (Pin: 284---)

N S Poultry, Dairy & Agri Farm, 72 Sagar Gate, Jhansi -- Sanjeev Sabharwal.

KANPUR (Kpr) (Pin: 208---)

ASB Commercial PF, Bithoor Rd, Beri Akbarpur, Kalyanpur -018; Prop: Yashpal Singh (2,000 B).
Abdul Hafeez PF, B15 Khabra Mohalla, Kpr -001 (800 L).
Deekay PF, 63 HIG, Ratan Lal Nagar, Kpr (5,000 L).
Hudson School Poultry Unit, Civil Lines, Kpr.
M K D PF, 58 Cantt Rd, Kpr.
Prem PF, 454 Tagore Rd, Kpr Cantt; Ph: 65606, 63196 -- Dr Satwant Singh (1,000 L).
Sain PF, 22/22 Patkapur, Kpr -001 — Smt Kamini Tandon (4,000 L).
Sengar's PF, 3 Naveen Market, Kpr -001; Ph: 61740; Farm: Etawah -- H V Singh (8,000 L).
Shankuntala Poultries, Civil Lines, Airdale, Kpr -001; Ph: 67420 — Smt S P Jain (3,000 L)
Sumeet Best Food Farms, 157B, Coop Indl Estate, Udyognagar, Kpr -022; Ph:21356 -- Smt Manjeet Lamba (5,000 L).
U P Inst of Agricultural Science, Div of Animal Husbandry & Dairying, Poultry Farm, Kpr; Ph: 44466 — Prof & Head: Dr N S Kushwaha.

LUCKNOW (Lkn) (Pin: 226---)

Asthana, A S, Barkat Ali Rd, Gola Ganj, Lkn (500 L).
Bharawan PF, 8 Vazir Hasaan Rd, Lkn — M P Singh.
Choudhary PF, Sector B, Mahanagar, Lkn -- D K Choudhary.
Kohli PF, Dali Ganj, Lkn -001 — Mohan Meakin Lal.
Naizi, M F R, 148 Barkat Ali Rd, Gola Ganj, Lkn -001 (2,000 L).
Raj PF, Yogeshwar Nath Marg, Takat Laika Ganj, Lkn; Ph: 82756 -- Smt Mira Bakshi (5,000 L).
Star PF, Ahmed Manzil, Abdul Aziz Rd, Akbari Gate Chowk, Lkn; Ph: 82595 -- Mohd Hasan Ansari (3,000 B).

MATHURA (Pin: 281---)

Akal PF, Krishna Nagar, PB No 51, Mathura -001 (1,500 L).
Lakshmi PF, c/o Lekhraj & Bros, Jawahar Hat, Mathura -001 (2,200 L).
Yogi PF, Laxmi Nagar, Near Birla Mandir Dharamshala, Mathura; Ph: 487; Office: Seetla Ghati, Mathura -001; Prop: Y V Bhargava (2,000 L).

MEERUT (Pin: 250---)

Ajanta Tailors & PF, Chowk Bazar, Sardhana, Meerut.
Friends Farms & Products, A Block 55/56, PO Hastinapur -404; Prop: Ramesh Chand Bethwal (6,000 B).
Frontier PF, Soti Ganj, Meerut -001 — Arjan Lal (4,000 L).
Indra PF, Vill Palli, Baghpat -609; Ph (Delhi): 256940 & 256810, resi: 222289 — Panna Singh Bhatia & Amarjeet Singh Bhatia (10,000 L & 60,000 B).
Khurana PF, 505/9 Begam Bagh, Meerut -001 (2,000 L).
Miki Enterprise (India) Pvt Ltd, Near Krishna Cold Storage, Jail Rd, Meerut -002; Ph: 73715, 72326, resi: 72492 -- A R Sood (12,000 L).
Mohan PF, Vill Palli, Baghpat -609 (500 L).
Nagar PF, 1 Defence Colony, Hastinapur -404; Prop: Guru Nagar (1,000 L).

MORADABAD (Pin: 244---)

Monu PF, G T Rd, Gajrula (4,500 L).

MUZAFFARNAGAR (Pin: 251---)

Kataria PF, Khatauli -201 (1,000 L).
Krishna PF, Vill Ghazipura, Mansurpur -203; Ph: 3305 (farm) — Mohinder Pal & R P Berry (2,000 L).
Puja PF, c/o Shadilal Garden, Meerut Rd, Muzaffarnagar -001 (2,000 L).
Punjab PF, 81 Bhopa Rd, Muzaffarnagar (2,500 L).
Scholars PF, Rly Rd, Khatauli -201 —

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NAINITAL (Pin: 263---)

Adhikari PF,Kusumkhera,Haldwani(2,000 L).
Ajit PF, c/o Friends Diesel Service Station, Ram Nagar Rd, Kashipur 244713 (2,000 L).
Amarpal PF, c/o Ekbal Electric Store, Near Kailash View Store, Haldwani -139 (5,000 L).
Anand PF, Rampur Rd, Haldwani -139(1,000L).
Anil PF, Kusumkhera, Haldwani (1,000 L).
Anupam PF, Baspur Bus Stand, Old Kapas Mill, Kashipur 244713 (4,700 L).
Ashish PF, Bareilly Rd, Haldwani -139; Ph: 303 -- Ashish P Gupta (3,000 L)
Bawari PF, Subhas Nagar, Haldwani(1,000L).
Bhawali PF, Mal Rd, Near Grand Hotel, Bhawali, Haldwani -139 -- L K Khanna (1,000 L).
Bhogal PF, 17/42 Rajindra Nagar, Haldwani (1,200 L).
Bombay PF,Bareilly Rd,Haldwani-139(2,500L).
Chandola PF, Vill & PO Arjunpur, Gora Parao (Bareilly Rd), Haldwani — G D Chandola (2,500 L).
Chandra PF, Vill Basgar, PO Shaktifarm 263151; Prop: Bipin Mehrotra; Ph: 25 (3,000 L).
Chawla PF, Ramnagar Rd, Kashipur 244713; Prop: Ram Kishan Chawla, Ph: 415 (3,000 L).
Golden PF, Bareilly Rd, Haldwani (6,000L).
Goyal PF, Rampur Rd, PO Manpur West 261145 (1,500 L).
Gurmukh Singh, c/o G S Anand & Bros, Nainital Rd, Haldwani -139 (4,500 L).
Jeet PF, Ramnagar Rd, Kashipur 244713; Prop: Ajeet Singh, Ph: 284 (5,000 L).
Kapson's PF, Prem Deep, Ramnagar Rd, Kashipur 244713; Ph: 82 — Prem Kapoor (5,000 L, 2,000 B).
Karnatak PF, c/o Khanna Farm, Teen Pani, PO Industrial Estate, Dist Nainital; Prop: H B Karnatak (3,000 L, 2,000 B).
Khanna Farms, Bareilly Rd, Haldwani.
Kohli PF, c/o Health Food Store, Near Kailash View Hotel, Haldwani -139; Ph: 451 — Brij Mohan Kohli (4,000 L).
Loshali PF, Bareilly Rd, Haldwani -139 (2,000 L).
Mahesh Shah PF, Rani Bagh, Haldwani.
Malhotra PF, Near Rampur Rd, Katha Factory, Haldwani -- Dharam Pal Malhotra (1,000 L).
Manjeet PF, Bareilly Rd, Haldwani -139; Ph: 44 — Jai Singh (6,200 L).
Modern PF, Vill Choti Mukhani (near Pilikothi), Haldwani -139 -- Roshan Lal.
Munjal PF, c/o National Paint Store, Mangal Parao, Bareilly Rd, Haldwani -139 (5,000 L).
Nagpal PF, Rampur Rd, Haldwani-139(1,000L).
Nand Kishore PF, Vill Hathikhal, PO Arjunpur, Haldwani.
Nitin PF, c/o Dr Nirmal, Bhiwani Ganj, Haldwani.
Northern PF, Bazonia Haldu, Kathgharia, Haldwani (1,500 L).
Pal PF, Rampur Rd, Vill Dewal Chaur, Kham, Haldwani -139 -- Surinder Paul(2,000 L).
Pandey PF, Vill Kathgharia, Haldwani -139 (500 L).
Pines PF, Bhumidhar, Nainital (1,500 L).
Punjab PF, Rampur Rd, Near ITI, Haldwani -139 (2,000 L).
Raj PF, Fonseca Estate, PO Kathgodam -126 — R L Sah (1,500 L).
Raj PF, Ramnagar Rd, Vill Bhogpur, Kashipur 244713 (1,000 L).
Rawal PF, c/o Prince Watch Co, Main Bazar, Thana Rd, Kashipur 244713; Ph: 138 -- Ram Piyare, Kishan Lal & Sri Ram (3,000 L).
Regal PF, Naharpur, Kashipur 244713 (1,500 L).
S K PF, Prem Nagar, Bareilly Rd, Haldwani.
Sayal PF, Kathagharia, Kala Dungi Rd, Haldwani -139 -- Indra Mani Sayal (1,000 L).
Segg PF, Kharagpur-Devipura, Kashipur 244713 — S M Yadav, S P Malik, S N Dixit (7,000 L).
Sharma, G K, Vill Jolikote, Nainital (1,000 L).
Tarun PF, Tanakpur Rd, Haldwani -139; Ph: 222 — R C Muthpal (3,000 L).
Vijay PF, North Gaujajali, Bareilly Rd, Haldwani -139 (1,500 L).
Vishal PF, Rampur Rd, Haldwani -139 (2,500 L).

SAHARANPUR (Pin: 274---)

A K Poultry Farms & Industries, 19 Civil Lines, Roorkee 244667; Farm: Mohanpura — A K Gupta (1,000 L).
Chandra PF, Raghunath Niwas, Gill Colony, Saharanpur -001 (2,000 L).
Prakash PF, c/o Kapoor Machinery Mart, 31 Railway Rd, Saharanpur.

UNNAO (Pin: 209801)

Agro-Vet Farms, 34 Kanoon Goyan, Unnao -- Jitendra Kumar Nigam (1,500 L, 300 B).
Arora PF, Safir Rd, Dosti Nagar, Unnao.

VARANASI (Pin: 221---)

Ashok PF, S-16/46 Kuldipur, Shivpur, Varanasi.



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Clark's Hotel PF, 34 Cantt, Varanasi -002.
Hazari PF, Opp Catholic Church, Varanasi.
Highway PF, Shedarpur, Via Lahartara, Varanasi.
Hindustan PF, PO Khojwa, Varanasi.
King PF, S-17-330, E-1 Maldahaya, Varanasi -001; Ph: 66466 -- Sayeed Hafiz Ur Rahman.
Nisha Poultry, Pili Kothi, Varanasi -001.
Public PF, 35/5-A Vikram Bldg, Varanasi -001 -- Surendra Kumar (1,500 L).
R K PF, Khanna Villa, Moti Jheel, Varanasi.
Shah PF, J12/80 Nati Jamli Baulia, Varanasi -001; Ph: 63292 -- U Shah (500 L).
Sharad Farms, Jaunpur Rd, Varanasi Cantt -002; Ph: 63039 -- Sharad Gupta(4,000L)
Sharma PF, Nati Imli, Varanasi.
Sindh PF, House No 5/149-1, Ramrayour Mohalla, PO Nakkighat.
Vikram PF, Lanka, Varanasi.

West Bengal

BIRBHUM (Pin: 731---)

Modern PF, School Bagan, Bolpur -204 -- Ajit Basu Roy.
Palli Siksha Sadan, Vishwa Bharati Sriniketan -236 -- Visva Bharati (1,000 L).

BURDWAN (Pin: 713---)

Bose's PF, 20, Apcar Garden, Asansol -301; Ph: 4242 -- Samir Bose (2,000 L).
Pranscn Agrico (P) Ltd, 20, Apcar Garden, Asansol -301 -- Samir Bose (3,000 L).
Sridurga Farm, Qr No 20/9 Vidyapati Rd, Durgapur -205 -- Moti Tulsi Ghosh.

CALCUTTA (Cal) (Pin: 700---)

Apsara Starchick Breeders, 16 Palm Ave, Cal -019; Ph: 434004, 431672; Partner: Arup Sen; Gen Mgr: S Banerjee (14,000B).
B K Roy (P) Ltd, 4 Bankshall St, Cal -001; Ph: 230603; farm: 4 (Arambagh); Dir: P K Roy (7,500 L, 12,000 B).
Bakuli, Naresh C, 156 Rai Bahadur Rd, Behela, Cal -034 (3,000 L).
Bhowmick, Dr D K, 11 Lalit Mitra Lane, Cal -004; Ph: 555896; Farm: Vill Aranghatta, Nadia Dist.
Biswas PF, 3 Bagan Bari Rd, Cal -075 (2,000 L).
Chatterjee, Sefali, 11/3 Panasripally, Behela, Cal -060 (2,500 L).
Chowdhury, Jayanta, Kastodanga Rd, Cal-016 (5,000 L).
Dutta, Binoy Bhushan, 1 Lindsay St, Cal (2,000 L).
Ghosh, Madan Mohan, 31 Hemchandra Mukherjee Rd, Behala, Cal -008 (5,000 L).
Ghosh's Poultry, 4/1 A, Rajab Ali Lane, Cal -023 -- Kamal Ghose (2,000 L, 800 B).
Home PF, 280 Netaji Colony, B T Rd & Tobin Rd Junction, Baranagar, Cal -050.
Ideal PF, 162B, Peary Mohan Roy Rd, Cal-027 -- Ashoke Kumar Palit (3,000 B).
Jyoti Poultry Food Centre, 78 N S C Bose Rd, Cal -040 -- Dilip Bhowmik.
Komal PF, Anandlok Estate, Cal -054; Ph: 324155; Prop: Ashok Ganguly (8,000 B)
Laxmi PF, D 7, Anandolok Estate, Cal -054; Ph: 358743 -- Smt Laxmi Sinha (2,500 B).
Mallick, Samir, 109/B, Chittaranjan Avenue, Cal -073; Ph: 276860 (off), 322168(resi) (1,500 L).
Mitra, Barun, Raxitpara, Cal -061 (5,000 L).
S D PF, 6 Harrington St, Cal -071; Ph: 444533 -- Sujoy Dass (1,000 L, 5,000 B).
Uma Poultry, 65 Chowringhee Rd, Block H, Cal -020; Farm: 30 Bamacharen Roy Rd, Cal -034 -- Suhrid Datta.
Urban Hi-Breed Farm Pvt Ltd, 109A/1A, Biplabi Rashbihari Bose Rd, Cal -001; Ph: 269111, 269119; Farm: Joka, 24 Parganas; Mg Dir: S N Sen (20,000 L). See: 24 Paraganas.

DARJEELING (Pin: 734---)

Dr Graham's Home Farm, The, Kalimpong -301; Mgr: D N Prodhan (3,000 L).
National PF, Guru Nanak Nagar, PO Ektiasal -402 -- Gurcharan Singh Chipra.
Pradhan Small Farm, Thurbo Tea Garden, PO Mirik -214 -- P L Pradhan.
SAS Poultry, St Alphansus School, PO Kurseng -203; Ph: 422, 484 -- Rev Fr J M Abraham, SJ (7,000 L).
Siliguri Ideal Poultry, The, Vivekananda Pally (East), PO Siliguri -401.

HOOGHLY (Pin: 712---)

B K Roy Pvt Ltd, Arambagh -601; Ph: 4; Dir: P K Roy (7,500 L,12,000 B).See:Calcutta.
Chandannagar Agril & PF, Mankundu Station Rd, Chandannagar -136.
Golden PF, Kumarpara, Dupleixpatty, Chandannagar -136 -- Maloy Biswas.
Greenland PF, Vill Kalachara, Chanditola -702 -- Biswanath Paul (5,600 B).
K P Poultry, Gurup, Hooghly (2,000 L).
Nabagram Hatchery, 27 College Rd, Vill & PO Nabagram -246.

HOWRAH (Pin: 711---)

Auro Poultry, 78 Santiram Rasta, Bally -201 -- S Bannerjee.
Begnan Multipurpose Livestock Farm, Chandrapur, Begnan -303 (1,100 L).
Das, Shyam Sundar, Vill & PO Banipur -304, Via Andul Mouri (2,000 L).
Golden PF, Vill Nischinda, PO Ghoshpara (Bally -201) -- S K Banerjee.
Malik, Susanta, Vill Panchpara, PO Radhadasi (3,500 L).
Mondal PF, Nana Uluberia -315, Howrah -- Mrigen Mondal (2,000 L).
Nagendra PF, Manaspur--Samar Sen(3,000 L).
Roy, Shiba Prasad, 25 Lala Babu Sahir Rd, PO Belur, Howrah (2,000 L).
Rupal Farm, Uluberia -315, Howrah; Mgr: Mahendra R Gupta (2,000 L)

JALPAIGURI (Pin: 735101)

Tinku PF, Puraba Aurobindo Anchal, Jalpaiguri.

MIDNAPORE (Pin: 721---)

Adhikary, Malay, Vill Pudambasan, PO Tamluk -636 (2,500 L).
Ananda Bhusan Sarkar PF, Puratan Bazar, Kharagpur -301 (3,300 L).
Contai PF, c/o Contai Hatcheries, Contai -401 -- Utpal Maity (10,000 L).
Dipak Singh, Natun Bazar, Midnapore -101 (2,000 L).
Ideal PF, Vill Fulmonipur, PO Mangalapur -121, Dist Midnapore -- Bamapada Bhattacharya.
Midnapore PF, Kranitola, Midnapore -101; Partners: N C Maiti, Amal K Maiti, Soydeep Maiti; Farm: Midugi (8,000 L).
Nag, Soumendu, Vill Malancha Rd, PO Kharagpur -301 (3,500 L).
Nandi Poultry Products, Vill Moulara, PO Mangalapur -121 -- Asok Kumar Nandi.
Neo Farms, Vill Shalbori, PO Garh Shalboni -507; Mg Partner: Nimai Nandi (3,500 L, 12,000 B/year).
Patra, Biren, Vill Garh Kamalpur, PO Mahishadal -628 (4,000 L).
Radhanath PF, Mirbazar, PO Midnapore-101; Ph: 718; Partners: Nabendu Pati, S Pati (9,000 L).
Rupali PF, Fatesinghpur, PO Amlagora -121 -- Dr Santimoy Dey; Ph: 63 (1,000 L).

MURSHIDABAD (Pin: 742---)

Murshidabad Poultry-cum-Hatcheries, 25 R N Tagore Rd, Murshidabad -149.

NADIA (Pin: 741---)

Ashadan Welfare Society, Ashandan Vill, Badjangla PO, Krishnagar -101 (1,000 L, 6,000 B).
Biswas, Bikash, Vill Nirmalpalli, PO Simurali -248 (750 L).
Biswas, Robindra Nath, Vill Nirmalpalli, PO Simurali -248 (650 L).
Don Bosco School, Poultry Unit, Krishnagar -101; Ph: 465 -- Fr Dino Colussi (4,000 L, 9,000 B).
Kukkut Ashram, The, Laxmitola Para, PO Santipur -404 -- Siddhartha Banerjee.

PURULIA (Pin: 723---)

Leprosy Home & Hospital, Poultry Unit, PO Purulia -101.
Ramakrishna Mission Vidyapith, PO Vivekananda Nagar -147 (1,000 L).

24-PARGANAS (Pin: 743---)

Ashok PF, PO Mallickpur -- Ashok Gupta (3,000 B)
Bera PF, Bishnupur -503--R Bera (2,000 L).
Bhattacharya, Bhomoresh, Vill Bhadura, PO Sohronhat (1,500 L).
Bhattacharjee, Tapan, PO Mallickpur (1,000 L, 300 B/week).
Biswas Poultry, Champahati -330 -- Manjula Biswas.
Biswas, Ramlal, Vill & PO Dakshin Gagoddal, Via Narendrapur (4,000 L).
Chatterjee, Neelkamal, 6 Basant Babu Rd, Kanchrapara -145 (2,000 L).
Das PF, Das Villa, PO Rajarhat -510 -- Samarendra Nath Das (1,200 L,2,500 B).
Debnath, Sankar, Vill Rabindranagar, PO Larkarpur -515 (1,000 L).
Dutta, J B, Vill Millopalli, PO Sonarpur -369 (1,500 L).
Dutta, S K, PO Mallickpur (3,500 L).
Essar PF, 10 Muchipara Rd, PO Paschim Putiary 700041 -- Sumit Ray.
Evergreen PF, "Repose", Vill Kayadanga, PO Kalyangarh -272 -- R Roychaudhuri.
Ghosh, Smt Gita Sree, 197/4 Kalyangarh-272; Ph: 180 (Habra) (42,000 L).
Haldar PF, Vill Ghoshpara, PO Belsingh -- Romesh Haldar (80,000 L).
Mahamaya PF, Dingalpota, PO Dakhinijagadal -- Madhu Sudan Kundu (2,500 L).
Mukherjee, Santanu, Mandirbati, Barasat -201 (2,000 L).
Naskar, Dhirendra Nath, Vill & PO Dakshin Gagoddal, Via Narendrapur (4,000 L).
Nikhil Das PF, Habra; Ph: 122 -- Nikhil Das (3,000 L).
Pal, Sukumar, Vill & PO Ghoshpur, Via Mosheandopur (2,500 L).
Premier PF, 215/8 Ashoknagar -222 -- Prakash Chandra Mukherjee.

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Roy, Sukumar, Vill Moshat Kalitola, PO Taldangra 722152 (2,500 L).
Sahoo, Gopal Chandra, Vill Mallickpur, PO Malancha (5,000 L).
Sunita PF, Bagpul, Bira -- J D'Sa Prabhu (1,500 L).
Urban Hi-Breed Farm Pvt Ltd, Diamond Harbour Rd, Vill Joka -512; Ph: 615241 & 615281 (Cal);Mg Dir:S N Sen(20,000 L). See: Calcutta.

Late Additions

CHANDIGARH (Chnd) (Pin: 160---)

Tarun PF, 2128 Sector 15-C, Chnd -015; Farm: Vill Kandala — Rajiv Prashar (4,000 L).
Viking Food Products Pvt Ltd, 176 Phase II, Industrial Area, Chnd -002.
Vivek PF, 3349 Sector 23-D, Chnd -023; Farm: Lahora Khuda; Ph: 25232 -- Mrs Geeta Mittal.
Walia PF, 2292 Sector 24-C, Chnd -024; Ph: 23151; Prop: J K Walia.
Zippy PF, 27 Sector 23-C, Chnd -023 -- R Singh.

DELHI (Pin: 110---)

U P Farm Products Pvt Ltd, C-1/18 Safdarjung Development Area, New Delhi -016; Ph: 666393. Farm: Murad Nagar, Dist Ghaziabad, UP. (75,000 L).

GOA (Pin: 403---)

St Francis Xavier's Centre for the Handicapped, Kadamba Rd, Old Goa -402) (1,500 L, 1,500 B/month).

JAMMU & KASHMIR (Pin: 190---)

Jehlum Poultries, 57, Gogji Bagh, Srinagar -008; Prop: Mrs Ghlam Fatima; Ph farm & resi: 72396 (2,000 B/month).

KARNATAKA (Pin: 576---)

Century Farms, Perampalli, Post Shivalli, Via Kunjibettu -102, Udupi Tq, Dist Dakshina Kundu; Mg Partner: B Rajarama Bhat; Ph: 8847 (8,000 L, 2,000 B/week).
Sandur PF, Sandur 583119, Dist Bellary; Offr Incharge: Dr H R Halambi; Ph: 4287, resi: 40 (20,000 L).

KERALA (Pin: 695---)

Appollo PF, Thoongampara, Kandala Post, Dist Trivandrum; Prop: Sq Ldr V T George (retd); Ph farm: 10, resi: 68606 (Trivandrum) (5,000 B/month).
Christ King PF, Charumkuzhi Puthen, Veedu, Perumkaduila PO -121, Dist Trivandrum; Prop: K Thankaraj (1,000 B/month).
Kerala Farm, Thozuckal, Neyyattinkara PO -121, Dist Trivandrum; Prop: B Rehunath (600 L, 1,000 B/month).
King PF, Thirupuram PO -133, Dist Trivandrum; Prop: R L Yesudas (2,000 B/month).

MADHYA PRADESH (Pin: 492---)

Sandhya PF, Tellibandhih, PO Ravigram -001, Dist Raipur; Prop: Achin Banerji; Ph off 24195, resi: 26928 (10,000 L).
Simran Poultry, 579 Khatiwala Tank, (Near Microwave Tower), Indore -001; Partner: Harender Bhatia (15,000 B).

MAHARASHTRA (Pin: 415---)

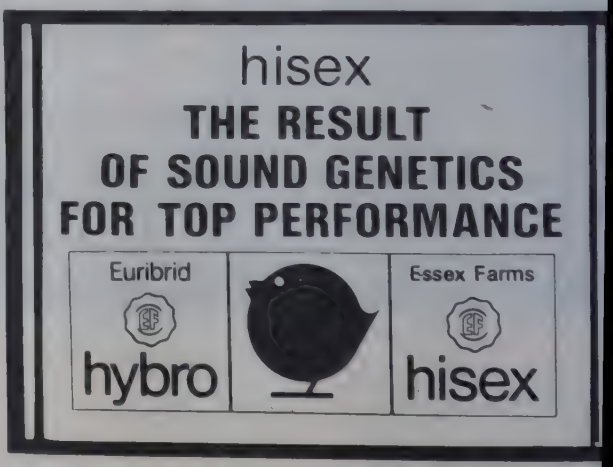
Daulat Poultry Complex, At & PO Kavlapur 416306, Tq Miraj, Dist Sangli; Prop: Bajirao Ramrao Patil, Ph resi: 4994 (24,000 L).
Kailash PF, Power House Rd, Vita 415311; Prop: Kiran R Mhetre; Ph resi: 47 (3,000 L).
Radharaman PF, 146 Power House Rd, Vita 415311, Dist Sangli; Prop: Deepak R Chothe, Ph resi: 54 (9,000 L).

RAJASTHAN (Pin: 342---)

Shan Poultry, Vill Pal, Jodhpur. Off: Opp Vet Hospital, Ratanadh, Jodhpur; Prop: R C Chowdhary, Ph: 24794 (3,000 L, 3,000 B).

UTTAR PRADESH (Pin: 226---)

Nutribirds Poultry & Broiler Farm, Sarfaraganj, Harodi Rd, Lucknow -003.
Shah PF, Vill Ramibagh, PO Kathgodam 26312 Dist Nainital; Prop: Smt P Shah (2,000L
U P Farms Products Pvt Ltd, Vill Asalat Nagar, Meerut Rd, PO Murad Nagar, Dist Ghaziabad; Dir: Arvind Malik; Ph off: 633446 (Delhi), resi: 666393 (Delhi), farm: 149 (Murad Nagar) (65,000 L).





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Hatcheries

Suppliers of commercial hybrid stock of day-old layers and broiler chicks are listed below, statewise. Some breeding farms in the public and private sectors have imported the original breeding lines of known combination to propagate the grandparent stock needed for multiplying the parent stock. At the end of this listing is a Buyer's Guide, arranged brandwise, to assist buyers of commercial stock to locate the availability of a particular brand in their region. This list is followed by two lists: One, of franchisers which have technical collaboration or arrangements with foreign commercial breeders to multiply their stock; and, second, of breeding farms which maintain Pureline stock to propagate the grandparent stock.

Andhra Pradesh

ANDHRA PRADESH STATE MEAT & POULTRY DEVELOPMENT CORPN LTD, Regional Poultry Demonstration & Research Farm, Saroornagar, Hyderabad 500035; Ph: 36856, 36681; Mg Dir: Dr C Rajal Rao; Chief Poul Dev Offr: Dr R Subba Rao. Stock: Pearlbro Samrat (broiler).

ARVIND HATCHERY, 7-1-54/2/B Ameerpet, Hyderabad 500016; Ph: 36993, Gram: Arvinhatch; Chief Exec: Capt P M M Reddy. Stock: Pearl Rupali (white egger), Pearlbro Samrat (broiler).

BLV HATCHERIES PVT LTD, 1-1-169/A Charminar Cross Rd, Hyderabad 500020; Ph: 68191, 63770, Gram: Belvel; Managing Director: K Bhasker Rao; Directors: K Venkat Rao, K Lakshman Rao. Stock: Lohmann LSL (layer), Lohmann (broiler).

BALAJI HATCHERIES, PO Reddigunta, 2/6 Milestone, Vellore Rd, Chittoor 517002; Ph off: 2766, resi: 2256; Mg Partner: Dr V Sundar Naidu. Stock: BV-300 & BV-380 (layers), Vencob (broiler).

BHAGYALAKSHMI HATCHERIES PRIVATE LIMITED, III Floor-B, H No 4-1-1233, Subhodaya Apartments, Boggulkunta, Hyderabad 500001; Ph: 237254. Hatchery: 33 km, Vill & PO Thimmapur, Shadnagar Tq, Mahabubnagar Dist; Ph: 57 (Palmakole Ex); Dirs: B V Rao, C Jagapati Rao, M P Seshaiah; Ops Mgr: Ismail Madgum. Stock: BV-300 (layer).

CBR HATCHERIES PVT LTD, 4F Subhodaya Apartments, Boggulkunta, YWCA Lane, Hyderabad 500001; Ph off: 232774, Hatchery: 48192, resi: 66774, Gram: Bestchicks; Mg Dir: C B R Prasad; Production Dir: Dr K Buchi Reddy; Dir: Smt Madhu Bala; Tech & Sales Mgr: Dr V Satyaseela Reddy. Branch: Warangal. Stock: Hy-Line W-77 (layer), Pearl Samrat (broiler).

FUTNANI HATCHERIES. Area Sales Off: Ramnagar Colony, Chittoor 517002; Sales Rep: Sunil P Sadanandan. Residential Rep: Lokeswar Rao, 93-A Prakasam Rd, Tirupati 517501. Head Off: Madras, Tamil Nadu. Stock: Hy-Line W-77 and Hy-Line Tint (layer).

INDIA POULTRY FARM, THE, No 6/8/1214 NGO's Colony, Srinivasapuram, Tirupati; Mgr: N C Mohan Rao. Head Off: Bangalore. Stock: Hubbard (broiler), Shaver Starcross 288 (layer).

KASILA FARMS PRIVATE LIMITED, 902 Paigah Plaza, Basheerbagh, Hyderabad 500029; Ph: 223551-2, Gram: Hubchix, Tlx: 155-6489 HFED; Chmn: Shaik Imam; Mg Dir: Vikaruddin Shaik Imam; Dir (Ops): M Arshad Ali Khan. Hatchery: 48 km Stone, Hyderabad-Medak Rd, Narsapur Tk 502313, Medak Dist. Stock: Hubbard (broiler).

KRANTHI HATCHERIES, Benz Circle, Vijayawada 520006; Ph: 52874, Gram: Moreggs; Mg Partners: M Srinivasa Rao, K A Baig. Hatchery: Nunna 521212; Ph: 28 & 29. Stock: Hy-Line (layer), Indian River (broiler).

KRISHNA HATCHERIES PVT LTD, D No 27-6-97 Prakasam Rd, Governorpet, Vijayawada 520002; Ph: 63238, 64484 (PP); Mg Dir: Dr K Satyanarayana Rao. Regd Off: Ramannagudem, Vattigudipadu PO, Nuzvid Tq, Krishna Dist. Stock: H & N (layer), Ross (broiler).

MAYURI HATCHERIES PVT LTD, 16-10-27/113/4 Municipal Colony, Malakpet, Hyderabad 500036; Ph: 41863, Hatchery: 851313; Chmn: V Yadagiri Reddy. Stock: Pearlbro Samrat (broiler).

See also LATE ADDITIONS at the end of the listing

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RAJA RAJESHWARA HATCHERIES PVT LTD, 140 Srirampuram Colony, Malakpet, Hyderabad 500036. Stock: H & N (layer), Ross (broiler).

ROHINI HATCHERIES, 3-5-1093/22/2B, Narayanaguda, 28 Venkateshwara Colony, Hyderabad 500029; Ph: 63728; Prop: V Madhusudhan Reddy. Stock: DeKalb (layer).

ROYAL HATCHERIES PVT LTD, 6-3-790/4B, Ameerpet, Hyderabad 500016; Ph: 224224; Mg Dir: P S N Raju. Farm: Miyapur Vill, Via Ramachandrapuram, Hyderabad 500032; Ph: 48, 34. Stock: Vencob (broiler).

SAPTAGIRI HATCHERIES, Ramnagar, Pangarur, Chittoor Dist; Ph: 109; Chief Exec: Dr S R Veera Reddy.

SIMHAPURI HATCHERIES, 3/487 Laxmipuram, Nellore 524002. Stock: H & N (layer).

SINGH POULTRY PRIVATE LIMITED, Head Off: Unity House, 2nd Floor, Abid Rd, PB No 103, Hyderabad 500001; Ph: 34253, 35954, Gram: Singpoltry; Mg Dir: Harbans Singh, Ph (resi): 223139; Dir, Finance & Admn: O P Khurana, Ph (resi): 225111; Production Dir: Mrs Balwinder Kaur; Mktg Dir: Kuldip Singh; Admn Dir: Amarjyot Singh. Branch: 28-15-22, 1st Floor, Near Ram Mandir, Eluru Rd, Vijayawada 520002; Ph: 62118. Hatchery: Nunna (Vijayawada). Stock: Keystone (White egger), Keystone (Golden egger), Keggbro Broiler and Tanduri Cockerel.

SRINIVASA HATCHERIES PVT LTD, Opp Eenadu, Patamata, Vijayawada 520006; Ph: 52891-2; Mg Dir: C Jagapati Rao, Ph: 236424, 237254 (Hyd); Exec Dir: Dr K Somi Reddy, Vijayawada, Ph: 73617. Hatchery & Farm: PO Box No 9, Gannavaram 521101, Krishna Dist; Ph: 57397, 57359. Stock: BV-300 (layer).

SULOCHANA HATCHERIES, 15/205 Brindavanam, Nellore 524001; Ph: 3893, 4204, Gram: Dekalb; Gen Mgr: N Mohan Rao, Ph (resi): 5441; Tech Offr: Dr A Jayaprasad Reddy. Branches: Chittoor, Thirupathi, Rajampet, Rayachoti, Kurnool, Bellary. Stock: Dekalb (layer).

TIRUMALA HATCHERIES PVT LTD, 2-2-87/B Krishanpura, Hanamkonda, Warangal 506001; Ph: 7764, Farm: 20631, Gram: Babcock; Chmn: P Lakshmiah; Exec Dirs: P Madan Mohan, P Ram Mohan; Tech Services: Dr Bala Swamy; Operations Mgr: Dr A Rama Krishna. Stock: BV-300(layer).

VARUNA HATCHERIES (P) Ltd, Bandur Rd, Near Benz Circle, Chandra Mouli Puram, Patamata, Vijayawada 520010; Ph: 52040, 57325, Gram: Dekalb; Mg Dir: K Kameswara Rao. Stock: Dekalb (layer), Sarp (broiler).

VENKATARAMANA HATCHERIES PVT LTD. Regd Off: 16-11-310/14/6/3, Saleemnagar Colony, Opp T V Tower, Hyderabad 500036; Ph: 47356; Mg Dir: B V Reddy; Farm: PO Bibinagar, Bhongir Tq, Dist Nalgonda. Stock:BV-380 T (layer), Vencob(broiler).

VENKATESHWARA HATCHERIES PRIVATE LIMITED, Regd Off: IV-H Subhodaya Apartments, 4-1-1233 Boggul Kunta, Hyderabad 500001; Ph: 237254, 236424, Gram: Babcock, Tlx: 11-5754 VASU IN; Exec Dir: C Jagapati Rao; Dir, Sales: M P Seshaiah; Operations Mgr: M R I Magdum; Consultant: Dr Basker. Head Off: Pune. Stock: BV-300 (layer), Vencob (broiler).

Arunachal Pradesh

GOVERNMENT OF ARUNACHAL PRADESH, Directorate of AH & Vet -- Central Hatchery, Nirjuli, Subansir Dist; Vet Asst Surgeon: Vacant; Mgr, Central Poul Farm: Dr B N Tamuli.

Assam

ASSAM POULTRY FARM, Udyog Nagar, Tinsukia 786125; Ph: 694; Prop: B S Kochar. Stock: Keystone.

GOVERNMENT OF ASSAM -- Central Chick Rearing Farm, Khanapara, Guwahati 781022; Ph: 87370. All Weather Hatchery, Khanapara, Guwahati 781022; Ph: 87370. Dist Poul Farms -- Cachar: Govt Poul Farm, Silcoorie, Silchar; Darrang: Tezpur 784001; Ph: 372; Dibrugarh: Khanikar, PO Dibrugarh 786001; Ph: 107 (PP); Goalpara: PO Goalpara; Ph: 112; Kamrup: Govt Poul Farm, Birubari, PO Guwahati 781016; Ph: 24341; Karbianglong: Pig-cum-Poul Farm, Diphu; North Cachar Hills: Pig-cum-Poul Farm, Haflong; Nowgong: Barhampur; Sibsagar: Baghchoong, Jorhat 785008. Coordinated Poul Breeding Programme & Intensive Broiler Production Project, Khanapara, Guwahati 781022; Ph: 87370.

MANAS PRODUCTS (PROTEIN) PVT LTD, Mathghoria, Guwahati 781020; Dirs: A K Choudhury, D K Choudhury, R K Choudhury, J K Choudhury; Mgr: Dwijendra Mohan Choudhury; Asst Mgr: Bishnu Pada Pramanik. Off: Uzan Bazaar, F C Rd, Guwahati 781001; Ph: 27970, Gram: Manashouse. Stock:

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GOVERNMENT OF BIHAR — CENTRAL POULTRY FARM, Anisabad, Patna 800002; Ph: 25396; Gen Mgr: Dr S Jalal Ahmed. Regional Poultry Farms: Bhagalpur; Bokaro (Dhanbad); Muzaffarpur; Ranchi.

PATLIPUTRA POULTRY BREEDING FARM, 12-D Srikrishnapuri, Patna 800001; Ph: 22252, 7304; Mg Partner: Ram Nath Sahni. Stock: BV-300, BV-380 (Layers).

RANCHI COLLEGE OF VETERINARY SCIENCE & ANIMAL HUSBANDRY, Kanke, Ranchi 834007; Dean & Principal: Dr H R Misra. Stock: HH-260 (layer).

SWARNREKHA FARMS & HATCHERIES PVT LTD, Kanke Rd, PO Box 162, Ranchi 834001; Ph: 26789, 20681, Gram: Farmco; Mg Dir: F Azam; Mgr: H K Ghose. Stock: BV-300 (layer), Vencob (broiler).

URBAN HI-BREED FARM PRIVATE LTD, B I T Rd, Ranchi; Ph: 7274; Mg Dir: S N Sen. Head Off: Calcutta. Stock: Hy-Line W-77 (layer), Hybro (broiler).

Delhi

ASIAN AGRO FARMS INDIA LIMITED, Regd Off: 6 Community Centre, East of Kailash, New Delhi 110065; Ph: 6432994, 6432995, Gram: Agroasian; Chmn & Mg Dir: Jagdish Prasad; Gen Mgr (Mktg): J L Kaul, Ph (resi): 660078; Off Mgr: P N Deb. Head Off: Dehra Dun, UP. Stock: Ross broiler & H & N (layer).

DAKSHIN KEGG PVT LTD, Head Off: 8th Floor, Eros Apartments, 56 Nehru Place, New Delhi 110019; Ph: 6431642, 6432011; Chmn: Vinod Kapur; Mg Dir: Shashi Kapur. Operations Off: Vimala Bldgs, 5 Residency Rd, Bangalore 560025; Ph:561074; Vice Pres: Maj Promod Kapur (Retd).

DELHI ADMINISTRATION, Govt Poultry Farm, Satbari, Mehrauli, New Delhi 110030; Ph: 650914; Supdt: Dr R Muddarangaiah. Stock: HH-260 (layer).

ESSEX FARMS PVT LTD, 4 Aurobindo Marg, New Delhi 110016; Ph: 653537-38, 657584, 237832 (resi), Gram: Sausage, Tlx: 031-2860 Esex; Chmn: Smt R R Goyle; Dirs: Anand K Goyle, Arun K Goyle; Tech Mktg Adviser: Dr A P Sachdev, Ph: 657584, resi: 502929. Farm -- G P Farm Mgr: Dr V B Sharma. Broiler Breeding Farm: 17 Milestone, G T Karnal Rd, Vill Kundli, Sonepat, Haryana; Ph: 89378, 89374. Stock: Hisex White (layer), Hybro (broiler).

GOLDIE HISEX FARMS PVT LTD, 32 Sri Ram Rd, Civil Lines, Delhi 110054; Ph: 664056, 657584; Dir: A K Goyle; Chief Exec: Sandeep Goyle; Tech Mktg Adviser: Dr A P Sachdev. Ops Off: 4 Aurobindo Marg, New Delhi 110016. Hatchery: Deepalpur Rd, Tehsil Bahalgarh, Sonepat Dist, Haryana. Regl Off: Ludhiana. Stock: Hisex White (layer), Hybro (broiler).

HI-BRED (INDIA) PVT LTD, S-260 Panchshila Park, New Delhi 110017; Ph: 650697; Mg Dir: Gurdip Singh. Head Off: Karnal.

HY LAY BREEDING FARM. Prop: Mrs Madhu Malti Srivastava, D-7 Panchsheel Enclave, New Delhi 110017; Ph: 661426. Farm: DLF Chattarpur, PO Maidan Garhi, New Delhi 110030.

J G FARMS, C-30 Rajouri Gardens, New Delhi 110027; Ph: 502989; Partner: Joginder Singh.

KEGG FARMS PRIVATE LIMITED, 8th Floor, Eros Apartments, 56 Nehru Place, New Delhi 110019; Ph: 6431642, 6432011, Gram: Keggfarms, Tlx: 031-4590 Kegg: Pres & Mg Dir: V S Kapur; Vice-Pres (Mktg) & Dir: Shashi Kapur. Regl Offs: Bangalore, Calcutta, Gurgaon, Hyderabad, Ludhiana, Pune. Stock: Keggbro (broiler), Keystone Brown (brown egger), Keystone Golden (tinted egger), Keystone White (white egger).

MICKEY BROILERS PRIVATE LIMITED, Mahipalpur Rd, PO & Vill Kishangarh, New Delhi 110030; Ph: 654431; Farm Incharge: H S Billing. Stock: Ross (broiler).

OBEROI FARMS, Bijwasan Rd, PO Kapashera, New Delhi 110037; Ph: 391799, 746235. Stock: Hubbard (broiler).

POONA PEARLS POULTRY BREEDING FARM & HATCHERIES, 201 Vikram Tower, 16 Rajendra Place, Pusa Rd, New Delhi 110008; Ph: 5718497, Gram: Rupali; Regional Mgr (Northern Region): R P Sharma. Head Off: Pune. Stock: Pearl Tara-287 (white egger), Pearl Sonali (tinted egger), Pearlbro Samrat (broiler), Pearlbro Vikram (coloured broiler).

RANISHAVER POULTRY BREEDING FARMS PVT LTD, 3 Shopping Centre, West End, New Delhi 110021; Ph: 670611, 671126, 673655, 674155, Gram: Ranishaver, Tlx: 31-5568

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SANCHI AGVET RESEARCH PVT LTD, 301-302 Rattan Jyoti, 18 Rajendra Place, New Delhi 110008; Ph: 5722358, Gram: Dekalb, Tlx: 031-62507 IGL IN; Dir: Dr M Kuppusamy. Stock: Dekalb (layer), Sarp (broiler).

TARKESHWARA HATCHERIES PVT LTD, 32 DSIDC, Jhilmil Industrial Area, G T Rd, Shahdara, Delhi 110032; Ph: 203426, 202470, resi: 202319; Vice-Chmn: J P Sharma; Mg Dir: Ashwini Sethi; Gen Mgr (Group of Cos): Rajesh Sethi. Hatchery: Gurgaon. Stock: Vencob (broiler).

UNIVERSAL POULTRY BREEDING FARM, 1/2780 Kashmere Gate, Delhi 110006; Ph: 2522263, 2522264, Gram: Chickchick; Mg Partner: H Katyal. Stock: Unibro (broiler), Uni Brown (layer), Unisex White (layer), Universal Mini Broiler, Unitint (layer), Universal Fantabulous 84 broiler.

VENKATESHWARA HATCHERIES PVT LTD, B-40 Greater Kailash-I, Flat 3-C, IInd Floor, Bhatia Apartments, New Delhi 110048; Ph: 698178; Chief Exec (Delhi Ops): Shyam Kuldeep Singh, Ph (resi): 6410940.

Goa

GOVERNMENT OF GOA, Daman & Diu -- Govt Poul Farm, Ela, Old Goa; Farm Mgr: Dr A V Pai. Stock: HH-260 (layer).

MANDOVI HATCHERIES, Farm: 68/1 Khandepar Vill; Ph: 74; Off: Block 'C', Mukund Prasad, Shantinagar, Ponda, Goa 403401; Ph: 277; Mg Partner: P Ashok Kumar; Partner: V K Manohar. Stock: BV-300 (layer), Vencob (broiler).

Gujarat

DATTATRAYA POULTRY BREEDING FARM, At & Post Surasamal, Via Alindra 387115; Ph: 57 (Chikhodara); Mg Partner: Vinodchandra P Patel; Farm Incharge: Umeshkumar J Patel; Sales Rep: Jayant V Patel. Stock: BV-300 (layer), Vencob (broiler).

DWARKESH BROILER BREEDERS, Ganesh Bhuvan, Behind Music College, Baroda 390001; Ph: 555629; Mg Partner: Ghanshyam B Patel. Stock: Hybro (broiler).

GOVERNMENT OF GUJARAT -- Regional Poultry Breeding Farms & Hatcheries -- Ahmedabad: Makarba, Post Jivraj Park, -380051; Ph: 413185; Stock: M, V, O-1, 32 & 171 lines; Dahod: Muvatia; Ph: 260; Stock: RIR; Junagadh 362001: Ph: 746; Stock: HH-260 (layer); Surat 395003: Athwa Lines; Ph: 87238; Stock: HH-260 (layer); Vadodara: Alembic Rd; Ph: 63357; Stock: M x V Cross.

PATEL POULTRY BREEDING FARM, PO Box No 92, Valsad 396001; Ph: 2614, Gram: Patpoultry; Mg Dir: I D Patel. Stock: Hy-Line W-77 (layer), Indian River (broiler).

PRAKASH POULTRY BREEDING FARM, PO Dungri 396375, Valsad Dist; Ph: 37, Gram: Babcock; Mg Partner: Pravin R Patel. Stock: BV-300 (layer).

SHAKTI HATCHERIES, PO Box 20, Sarsa 388365, Tq Anand, Dist Kheda; Ph: 38, Gram: Shakti (Sarsa); Mg Partner: Rameshbai M Patel. Stock: Hisex White (layer).

Haryana

GOVERNMENT OF HARYANA POULTRY FARMS -- Ambala City; Ph: 57097; Stock: HH-260 (layer), BH-78 (layer); Bhiwani; Stock: BH-78 (layer); Hissar; Ph: 2230; Stock: ILI-80 (layer); Nuh, Gurgaon Dist: Chick Rearing Centre; Shahabad (M), Kurukshetra Dist; Stock: HH-260 (layer), BH-78 (layer).

HI-BRED (INDIA) PVT LTD, Post Box 20, Karnal 132001; Location: Vill Kulwahri, PO Subri, Teh & Dist Karnal; Mg Dir: Guddip Singh, Ph: 2287; Production Mgr: H A Khan, Ph: 2351; Hatchery Mgr: S Ramani. Regd Off: New Delhi. Stock: Hy-Line W-77 (white egger), Hy-Line Tint (tint egger), Indian River (broiler).

KEGG FARMS PRIVATE LIMITED, Production, Farm & Hatchery Div, B-15/A DLF Colony, Gurgaon; Ph: 21616; Chief Ops Mgr: Deepak Kapur; Jt Chief Ops Mgr: Rajendra Singh; Complex Mgr, Khandsa: Air Marshal L P Pereira (retd); Hatchery Mgr: Lt Col J S Cheema (retd).

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RAJDHANI FARMS, Vill & PO Larsauli, Sonepat Dist; Ph: 17 Ganaur (via Sonepat), Gram: Babcock, Murthal; Offr Incharge: Shyam Kuldeep Singh; Production Incharge: Dr Kshirsagar. Stock: BV-300 (layer), Vencob (broiler).

RANISHAVER POULTRY BREEDING FARMS PVT LTD; Area Rep: B J Singh, 134 Model Town, Ambala City. Head Off: New Delhi.

SAWHNEY FARMS, 196 New Colony, Gurgaon 122001; Ph: 20258, 21091; Chief Exec: Pramod Sawhney.

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SUSSEX BREEDING FARM & HATCHERIES, 36-R New Colony, Gurgaon 122001; Ph: 3009; Mg Partner: R S Grover. Stock: Pearlbro Samrat (broiler).

T P S BREEDING & RESEARCH FARM, G T Rd, Murthal, Sonepat Dist; Chief Exec: Sube Singh.

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TU-BRO POULTRY BREEDING FARM, 508-L Model Town, Karnal 132001; Prop: Prem Kishore Bansal, Ph farm: 44 (Jundla), resi: 2004, 4104 (Karnal), Gram: Tubro. Stock: Hybro (broiler).

VINTAR HATCHERIES, Krishnapura, Panipat; Ph: 3444, 3807, farm: 2113; Chief Exec: Vinod Khanna.

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SEVEE BREEDING FARM, 45 MIG, Sector-I, Parwanoo, Dist Solan; Ph: 269; Partners: Sewak Singh, Ravinder Singh. Stock: Hybro (broiler).

SHIVALIK HATCHERIES PRIVATE LIMITED, Vill Patel Bhanku, PO Panjehra, Teh Nalagarh, Dist Solan. Sales-cum-Service Off: SCO 359, Sector 32-D, Chandigarh; Ph: 40273, Gram: Cobb; Dir: Shyam Kuldeep Singh. Stock: BV-300, BV-400 (layer), Vencob (broiler).

SNOWHITE POULTRY BREEDING FARM, Vill & PO Ghurkari, Kangra 176001; Ph off: 63, factory: 181; Mg Partner: H K Chaand, Ph: 81 (resi); Gen Mgr: B K Saini. Stock: Keystone Golden, Keystone White (layers), Keggbro (broiler).

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HI-PICK POULTRY BREEDING FARM, Shastri Nagar, Kathua 184102; Ph: 51; Chief Exec: Sunil Gandotra. Stock: Hybro (broiler).

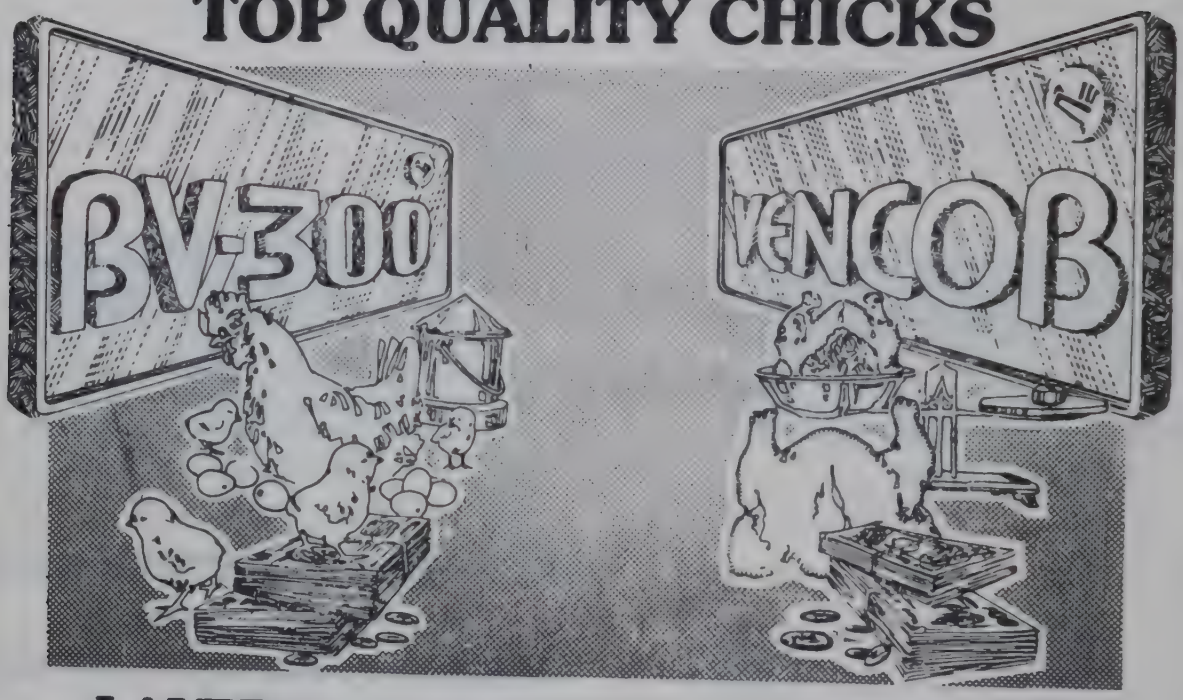
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Karnataka

CENTRAL POULTRY BREEDING FARM, Govt of India, Hessarghatta, Bangalore 560088; Ph: 384303 (Bangalore), 36 (Hessarghatta), Gram: Regpofarm; Dir: Dr K Amrutha Reddy; Asst Dir: Dr N Rajeswara Rao; Hatchery Offr: Roy. Stock: HH-260 (layer).

DAKSHIN KEGG PVT LTD; Operations Off: Vimala Bldgs, 5 Residency Rd, Bangalore 560025; Ph: 561074, Gram: Kegg Farms, Tlx: 0845-8189; Vice-Pres: Maj Promod Kapur (retd); Sales Mgr: S V Sutrave; Hatchery: Kelamangalam 635113, Tamil Nadu, Ph: 34. Sales Off: Hyderabad, Ph: 36473. Head Off: New Delhi. Stock: Keggbro (broiler), Keystone Brown (brown egger), Keystone Golden (tinted egger), Keystone White (white egger).

DEEJAY HATCHERIES, St Patrick's Complex, 3rd Floor, Brigade Rd, Bangalore 560025; Ph: 562738, 562749, Gram: Babcock, Tlx: 0845-604; Mg Dir: David J Lobo; Dir & Chief Exec: Winston V D'Cruz; Sr Mgrs, Poul Ops: Keith J Rosario, Dr James Gnanaolivu. Hatchery: Vill Geddalahalli, Kothanur Post, Bangalore 560077; Ph: 54094; Unit Head: D Venkappa; Sales Coordinator: A Balraj. Regl Off: St Patrick's Business Complex, 2nd Floor, Museum Rd, Bangalore 560025; Ph:579245, 51145; Head: T S Mohan. Branches: Belgaum, Coimbatore, Erode, Madras, Mangalore, Mysore, Namakkal, Rajapalayam, Rasipuram, Sirugupa. Stock: BV-300 (layer).

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KOMARLA HATCHERIES, "Komarla Complex," Old Tharagupet, Bangalore 560053; Ph:71505, 24034, farm: 58398, Gram: Balakrishna; Partners: K G Subbarama Setty & P S Nanda Kumar, Ph: 602797 (resi). Stock: BV-380 (brown egger) & BV-400 (tinted egger).

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SHREE NAGAR HATCHERIES, 82 Laxmi Rd, Dharwad 580001; Ph: 8814; Chief Exec: Sonagar. Stock: Hy-Line W-77 (layer), Indian River (broiler).

SOUTH WEST PEARLS HATCHERY (P) LTD, 31 Second Main Rd, Gangenhalli, Bangalore 560032; Ph: 365687, Gram: Pearls; Mg Dir: Gp Capt D M Oka; Offr Incharge: Wg Cdr P L Ghate (retd). Stock: Tara 287, Pearl Sonali (layers), Pearlbro Samrat (broiler).

Kerala

GOVERNMENT OF KERALA -- Central Hatchery, Angadical South PO, Chengannur 689122, Alleppey Dist; Ph: 277, Gram: Hatchery; Production Mgr: Dr K O Oommen. Regional Poultry Farms -- Asst Dirs (Poul) -- Chathamangalam, Kozhikode Dist: Vacant; Kodapanakunnu: Dr George Thomas, Ph: 62918; Koovarady 683544, PO Kuruppumpadi, Via Perumbavoor, Ernakulam Dist: Dr P G Sarada; Malampuzha, Palghat Dist: Dr K R Eswaran, Ph: 8206; Manarcaud 686019, Kottayam Dist: Dr K B S Paniker, Ph: 311 (Perumbavoor); Mundayad, Cannanore 670006; Dr K V Bhaskaran, Ph: 3468; Quilon 691001: Dr Viswa Das. Dist Poultry Farms -- Vet Surgeons -- Athavand, Malapuram: Vacant; Idukki 685602: Dr K R R Nair.

INDIA POULTRY FARM, THE, MIG-165 Gandhinagar, Cochin 682020; Ph: 37495; Mgr: K R C Nair. Head Off: Bangalore. Stock: Hubbard (broiler), Shaver Starcross 288 (layer).

KERALA HATCHERIES PVT LTD (Prop: Deejay Group), 'Anjali', North Fort Gate, Tripunithura 682301; Ph: 87886, 7976; Mg Dir: David J Lobo; Mgr: P T Vijayan. Off: 30 Valluvar St, Dr Sivanantha Colony, Tatabad, Coimbatore 641012; Head: Gavin Cordeiro; Sr Supervisor: C P Sakthivel. Hatchery: Kadungamangalam, Thiruvankulem PO, Ernakulem Dist. Stock: Vencob (broiler).

MALABAR HATCHERY PVT LTD, Thenkara Amsom Desom, Mannarghat Taluk, Palghat Dist; Chief Exec: P U Krishnan. Stock: Dekalb (layer), Sarp (broiler).

STAR PLASTICS, Mullurkara 680583, Dist Trichur; Ph: 29; Mg Partner: P K Paul. Stock: Hybro (broiler).

T R FARMS, "Ushas" Thdzhukkal, PO Neyyattinkara, Dist Trivandrum; Tech Mgr: Dr K Thankaraj. Stock: Ross (broiler).

TENS HATCHERIES, Vellanikkara PO, Trichur 680654; Ph (resi): 25632, 25963 (Trichur); Mg Partner: Smt K Padmaja Devi. Stock: Pearlbro Samrat (broiler).

Madhya Pradesh

CHATTISGARH HATCHERIES PVT LTD, 201/15 Ratan Colony, Gorakhpur, PB No 75, Jabalpur 482002; Ph: 27614, Gram: Babcock, Tlx: 765-232 VISH IN; Mg Dir: V N Dubey. Stock: BV-300 (layer).

EARLY BIRD HATCHERIES, 579 Khatiwala Tank (near Microwave Tower), Indore 452001; Ph off: 61109, 62240, resi: 60808; Partners: Gurdeep Singh Bhatia, B S Rekhi, H S Bhatia. Stock: Dekalb (layer), Hubbard (broiler).

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R K POULTRY RESEARCH & BREEDING FARM, near Gomti Industries, Shastri Nagar, Raipur; Ph: 25995; Prop: R K Agrawal.

SAKURE HATCHERY, Hirapur, PO Tatibund, Raipur 492001; Ph: 27311, 27542; Prop: Dr Harish Sakure. Stock: Hybro (broiler), Hisex (layer).

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ASHOK KUMAR HATCHERIES PVT LTD, Vill Lakhmapur, Tq Dindori 422202, Dist Nasik; Ph: 55, 77 (Dindori); Mg Dir: Dinesh C Kaji; Operations Mgr: Anantkumar Dharia; Farms Mgr: Dr C S Patil; Hatchery Mgr: S C Bose. Stock:Hubbard (broiler).

ASIAN AGRO FARMS INDIA LTD, 212/213 Parmar Chambers, 3/4 B J Rd, Sadhuvashwani Circle, PB No 81, Pune 411001;Ph:65987, 64487, Gram: Agrosians, Tlx: 0145-293 AAFI IN; Sr Vice-Pres: R K Handa, Ph (resi): 58099; Gen Mgr (Sales): Dr R Kishore; Admn Mgr: G D Gumley, Ph (resi): 66904. Farm & Hatchery: PO Talegaon General Hospital 410507, Dist Pune; Ph: 254, 255; Production Mgr: Dr J K Puranik. Regd Off: New Delhi. Head Off: Dehradun, UP. Stock: Ross (broiler), H & N (layer).

BAIKRISHNA HATCHERIES, "Shrikrupa", Brahmanpuri, Miraj 416410; Ph: 2646, Gram: Chicks; Mg Partner: C Vasanth Kumar; Chief Exec: V Venkatarayulu; Sales & Tech Mgr: Dr A V Naik. Head Off: Bangalore. Stock: BV-300 (layer), Vencob (broiler).

C & M FARMING PVT LTD, c/o Chemnar Poultry Farm, behind P W D Workshop, Off Trimbak Rd, Nasik 422002; Ph: 73522, 88734; Dir: E M D'Souza. Stock: Hy-Line (layer), Hubbard (broiler).

CENTRAL POULTRY BREEDING FARM, GOI, Aarey Milk Colony, Bombay 400065; Ph: 692515; Incharge: Dr A C Kanhar; Hatchery Offr: Dr Pramod Prakash. Stock: BH-78.

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POONA PEARLS POULTRY BREEDING FARMS & HATCHERIES, Jiyajee Mansion, Hadapsar, Pune 411028; Ph: 70177, 70477, Gram: Pearls, Tlx: 0145-425 DAMU IN; Mg Partner: Gp Capt D M Oka (retd); Partner: S M Oka; Geneticist: Dr Ajay Mathur; Off Sec: G R C Nair; Chief Accts Offr: Sqn Ldr V G Bhat. Stock: Pearl Tara 287, Pearl Sonali (layers), Pearlbro Samrat, Pearl Vikram (broilers).

RANI HATCHERIES (MAHARASHTRA) PVT LTD, c/o Vissanji & Sons, 9 Wallace St, Fort, Bombay 400001; Ph: 2044735; Gen Mgr: N N Merchant. Hatchery: Chikhale Vill, Panvel, Dist Raigad. Stock: Shaver Starbro (broiler) and Shaver Starcross 288 (white egger).

TRIMBAK HATCHERIES PRIVATE LIMITED, At Vill Lakhmapur, Tal Dindori 422202, Dist Nasik; Ph: 55, 77 (Dindori); Mg Dir: Anant Kumar Dharia; Farm Mgr: Deepak Ahluwalia; Hatchery Mgr: S C Bose. Stock: Hubbard (broiler).

VENKATESHWARA HATCHERIES PVT LTD, 13/6 Milestone, Panshet Rd, PO Girinagar, Pune 411025; Ph: 442244, 442748, 442663, 442561, 30495, Gram: Babcock, Tlx: 0145-319 VHPL IN & 0145-329 VASU IN; Mg Dir: B V Rao; Dirs: S B Thorat, Miss Anuradha Rao; Gen Mgr (Tech): Dr R G Patil; Gen Mgr (Mktg): Dr M A Samad; Gen Mgr (Western Ops): Gulam Harianawalla; Public Relations Mgr: B Ravinder Reddy. Stock: BV-300, BV-380, BV-400 (layers), Vencob (broiler).

WESTERN HATCHERIES PRIVATE LIMITED, 14/6 Pune-Sholapur Rd, PO Naigaon, Haveli Tq, Pune Dist; Ph: 207 (Loni), Gram: Babchick; Ops Mgr: P K Kutty; Hatchery Incharge: Arun Mathale. Stock: BV-300 (layer).

Manipur

GOVERNMENT OF MANIPUR -- Central Poultry Farm, Mantripukhri 795002; Poul Dev Offr: Dr Ch Birendrakumar Singh, Ph off: 20097, resi: 21485. Dist Poul Farms -- Churanchandpur: Poul Dev Offr: Dr M Amu Singh; Kangpokpi: Dist Vet Offr: Dr Phunindro Singh; Tamenglong: Poul Dev Offr: Dr S Babutombi Sharma; Uchandpolpi: Dist Vet Offr: Dr Rajendra Singh; Ukhrul: Poul Dev Offr: Dr Kh Ranjit Singh. Broiler Project Sub-Station (NEC), Porompat; Proj Offr: Dr S Joykumar Singh. Duck Farm, Thenguchingjin; Poul Dev Offr: Dr N Pakchao Singh.

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GOVERNMENT OF MEGHALAYA -- Central Hatchery-cum-Poultry Farm, Bhoi, PO Nayabunglow 793105; Mgr: Dr G C Das. Dist Poultry Farms -- East Khasi Hills: PO Mawrynkneng; Farm Mgr: Dr H B Lyngdoh; Jaintia Hills: Jowai 793150; Mgr: Dr M Tham; West Khasi Hills: Nongstain 793119; Farm Mgr: Dr A R Lyngdoh.

REGIONAL POULTRY BREEDING FARM, Kyrdemkulai, PO Nayabunglow 793105, East Khasi Hills Dist; Sr Mgr: Dr H N Borah. Stock: White Leghorn, Rhode Island Red, "B" and "M" lines.

Mizoram

STATE POULTRY FARM, Govt of Mizoram, Selesih, Aizawl; Ph: 380; Gen Mgr, Animal Husbandry Farm Complex: Dr C Lianmawia.

Nagaland

GOVERNMENT OF NAGALAND -- State Poultry Farms -- Dimapur 797112; Kohima 797001: Sangulie; Mon 798621: Ramongo-odyuo; Peren. Chick Rearing Centres -- Medziphema; Tuensang.

Orissa

BIJAYA POULTRY (P) LTD, Kapaleswar, Cuttack 754071; Ph: 29310; Mg Dir: A K Kar. Stock: Hybro (broiler).

CENTRAL POULTRY BREEDING FARM, GOI, Bhubaneswar 751013; Ph: 51875, 55735, Gram: Regpofarm; Dir: Dr S Ranjan; Asst Dir: Dr S P Jana; Hatchery Offr: D S Pandey; Farm Supervisors: Dr Prasanna Kumar Panda, H Sethi; Asst Statistician: B K Mohanty. Stock: Rhode Island Red, White Leghorn, Kalinga hybrid brown egg layer (Rhodo-white).

GOVERNMENT OF ORISSA -- State Poultry Breeding Farm, Angul 759122, Dhenkanal Dist; Dep Dir: Dr K M Mohanty. Regional Poultry Farms -- Koraput 764020: Offr Incharge: Dr S C Das; Sundergarh 770001. Dist Poul Farms -- Bhanjanagar; Bolangir; Harichandanpur. Special Poul Units -- Chiplima 768026, Sambalpur Dist; Similiguda 764036. T R W Poul Farm, Unit I: Bhubaneswar.

KALINGA HATCHERY PVT LTD, Farm/Hatchery: Plot 1, Industrial Estate, Bhagabanpur, PO Khandagiri, Bhubaneswar 751030; Mg Dir: Sudhansu Shekhar Das; Ph: 54103 (resi). Sales Off: Jail Rd, Jharapada, Bhubaneswar 751006; Ph: 55187. Farm: Tamando-26 (via Bhubaneswar). Stock: Vencob (broiler).

UNIQUE POULTRY BREEDING FARM PVT LTD, Professorpara, Cuttack 753003; Ph: 24606; Mg Dir: S S Misra. Stock: Hybro (broiler).

Pondicherry

STATE POULTRY FARM, PO Kariamanickam, Pondicherry 605001; Ph: 33; Supdt: Dr J Gunaseelan, Vet Asst Surgeon.

Punjab

AMAR JEET POULTRY FARM, Vill Suranasi, G T Rd, Jalandhar; Ph: 77270; Prop: Amar Jeet Singh.

CENTRAL POULTRY BREEDING FARM, GOI, Industrial Area, Chandigarh 160002; Ph: 24461, 41491, Gram: Regpofarm; Dir: Dr Harpal Singh. Stock: Broiler.

CHOPRA HATCHERIES, Opp Shivaji Park, Milap Rd, Jalandhar 144001; Ph: 76248, 76382; Mg Partner: Kuldip Chopra, Ph (resi): 2459; Tech Adviser: Dr S C Tandon; Production Mgr: Harish Bal. Stock: Vencob (broiler).

CONTINENTAL HATCHERIES (P) LTD, 256 Sector 9-A, Chandigarh 160009; Ph: 87906; Dirs: Raghubinder Singh, Mrs Surinder Kaur Badal, Ph: 20470. Stock: Hybro (broiler).

DUGGAL POULTRY BREEDING FARMS, G T Rd, Kainthan, Dasuya 144205, Hoshiarpur Dist; Ph: 127, Gram: Pearls. Stock: Pearlbro Samrat (broiler).

GARCHA POULTRY BREEDING FARM, 58-A Shastri Nagar, Ludhiana; Ph: 20594, 25912, Gram: Garchas; Mg Partners: Sukhev Singh, Jagdish Singh. Stock: Hy-Line (layer).

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141001; Ph: 37605; Regl Mgr: Dr R K Kharbanda, Ph (resi): 32978. Regd Off: New Delhi. Stock: Hisex White (layer).

GOODWILL POULTRY BREEDING FARM, 27 SCF, Main Market, Sarabha Nagar, Ludhiana 141001; Ph: 26560, 34213, 24918 (resi); Mg Partner: Agya Pal Singh Bajaj. Stock: Hybro (broiler).

GOVERNMENT OF PUNJAB — Govt Poultry Farms — Gurdaspur 143521: Mgr: Dr Ghambir Inder Singh, Ph: 377; Asst Mgr: Hans Raj; Jalandhar 144005: Mgr: Dr Ravinder Puri, Ph: 77337 (PP); Asst Mgr: Ram Singh; Stock: HH-260 (layer); Kotkapura 151204: Asst Mgr: Dr Baljet Singh; Malerkotla 148024: Mgr: Dr Rajinder Singh Grewal; Asst Mgr: Dr Harjeet Singh Grewal; Patiala 147001: Mgr: Dr Mohan Singh, Ph: 74116.

GURU NANAK HATCHERIES, Vill & PO Jaspal Bangar, Dist Ludhiana; Ph: 29109; Chief Exec: Milkeet Singh Walia. Stock: Pearlbro Samrat (broiler).

H S POULTRY FARM, Kartarpur 144801, Jalandhar Dist; Ph: 48, farm: 149, resi: 148; Mg Partner: Harbans Singh; Tech Mgr: Dr S G Kohli. Stock: Keggbro (broiler).

JAGJIT POULTRY FARM, Opp Sub Jail, Patti 143416, Dist Amritsar; Ph: 51 (Patti). Stock: Vencob (broiler).

KAIRA MODERN POULTRY FARM, G T Rd, Maksudan, Jalandhar 144004; Ph: 2742; H S Bedi.

KEGG FARMS PRIVATE LIMITED, 240-A Sarabha Nagar, Ludhiana 141001; Ph: 29778; Tlx: 0386-258; Regional Mgr (North): S S Sodhi; Regl Sales Mgr: T T S Rekhi. Head Off: New Delhi.

KENTUCKY HATCHERIES PVT LTD, 3054 Sector 20-D, Chandigarh; Ph: 32523, Gram: Hubchix; Mg Dir: Maj G S Bhullar; Dir: Dr Mahanbir Singh; Farm Mgr: P S Rana; Coordinator: Sub (retd) Chanan Singh. Stock: Hubbard (broiler).

MAHARANI POULTRY BREEDING FARM, 772 Lt Swarnjit Singh Market, Mota Singh Nagar, Opp Main Bus Stand, Jalandhar City 144001; Ph: 3230, 3240 (resi), 2996, 2832 (farm), Gram: Maharani; Mg Partner: Manjit Singh. Head Off: New Delhi; Ph: 6414066, 6413421. Stock: Shaver Starcross 288 (layer), and Shaver Starbro (broiler).

MANJEET HATCHERIES, Near Civil Courts, Samrala 141114, Dist Ludhiana; Ph: 57, Gram: Manjit; Mg Partner: Paramjit Rai. Stock: Pearl Tara 287 (layer), Pearlbro Samrat (broiler).

NEVEDAC HATCHERIES, 104, Sector 11-A, Chandigarh; Ph: 20754, 24552; Chief Exec: C S Vohra. Stock: Indian River (broiler).

NORTHERN HATCHERIES PVT LTD, Vill Sasrali, PO Jodhewal Basti, Rahon Rd, Ludhiana 141007; PB No 318, Ludhiana 141001; Ph: 36593, 36796, Gram: Babcock, Tlx: 0381-281; Gen Mgr (North): Dr S Samal; Ops Mgr: Dr R S Manhas. Stock: BV-300 (layer), BV-380 (brown & tinted egger).

PAL POULTRY FARMS, Vill & PO Khambra, Jalandhar Dist; Ph: 75189; Chief Exec: Inder Pal Singh Tiwana.

PUNJAB HATCHERY, Do-Moria Pull, Berry Rd, Ludhiana 141001; Ph: 30252, resi: 30993, Gram: Cobb; Partners: Mohinder Singh, Bhupinder Singh, Hardev Singh. Stock: Vencob (broiler).

PURE LINES BREEDING FARM, Railway Rd, Patti 143416, Amritsar Dist; Ph: 56. Stock: HH-260 (layer).

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STRAIN CROSS POULTRY FARM, Vill Tungbala, Majitha Rd, PO Khanna Nagar 143004, Amritsar Dist; Prop: Amrik Singh.

V S R HATCHERIES & BREEDING FARMS, 3113, Sector 24-D, Chandigarh 160023; Ph: 20291; Prop: S S Pillai. Hatchery: Vill Daria, Chandigarh.

Rajasthan

BHAGWAN HATCHERIES, c/o Jai Hind Soap Factory, Outside Delhi Gate, Ajmer; Ph: 20483; Chief Exec: Sukhumal. Stock: Hy-Line W-77 (layer).

GOVERNMENT OF RAJASTHAN — Govt Poul Farms — Ajmer: Lohagal Rd, -305001; Ph:20648; Stock: Keystone (layer); Alwar: Jaipur-Alwar Rd, -301001; Ph: 3446; Incharge: Dr Yashpal Singh; Jaipur: Khatipura, -302012; Ph: 76929; Supdt: Dr Yashpal Singh; Stock: ILI-80 (layer), Hybro (broiler); Jodhpur: Ratanada, -342001; Ph: 21241; Incharge: Dr S L Mathur; Kota: Mokhapara, -324001; Ph: 4965; Incharge: Dr S A Rasheed; Tonk: Dhanna Talai, -304001; Incharge: Dr D Prasad.

J B POULTRY & AGRICULTURE FARM, Miltex Bldg, Ram Nagar, Ajmer 305001; Ph: 21784,21919, 23999; Prop: Jitendra K Bahal. Stock: Hisex (layer), Pearlbro Samrat (broiler).

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RAJASTHAN POULTRY FARM, Kalwal Rd, Jaipur; Ph: 842495; Chief Exec: Smt Dayal Singh.

RANAWAT POULTRY BREEDING FARM, Hiranmagri, Udaipur 313001; Ph: 4059; Chief Exec: R B S Ranawat. Stock: Ross (broiler).

Sikkim

GOVERNMENT OF SIKKIM, Dept of AH, Experimental Poultry Breeding Farm, Tadong 737102; Central Poultry Farm, Karfectar, Jorethang. Stock: Cornish (IC2 & IC3), Rock (IR2 & IR3), White Leghhorn (HH-260, Mychix), Rhode Island Red.

Tamil Nadu

ABC HATCHERIES, A-17, Basement, Parsn Commercial Complex, 121 Mount Rd, Madras 600006; Pres: Syed Ibrahim.

A V M HATCHERIES & POULTRY BREEDING RESEARCH CENTRE PVT LTD, 25/327 Rangai Gowder St, Coimbatore 641001; Ph: 23683, Gram: Cattlefood, Tlx: 855-320 AVM IN; Mg Dir: A M A Wahab, Ph (resi): 24460. Stock: Longlay ILI-80 (layer).

ESBECE HATCHERIES, Admn Off: D5/D8, 1st floor, Gemeni Parsn Commercial Complex, 121 Mount Rd, Madras 600006; Ph:475784; Pres: B Ravisankar Babu; Chief Exec: Prasad Kummaya; Financial Controller: Elangovan; Farm Mgr: Lankasan. Head Off: 133 Rasappa Chetty St, Madras 600003; Ph: 30505, 36702. Breeding Farm & Hatchery: G N T Rd, Puzhal, Madras 600066; Ph: 67243. Stock:Indian River (broiler).

FOOD FEEDS & FABRICATIONS (Prop: Deejay Group), Km Stone 3, Hosur-Rayakottai Rd, Hosur; Ph: 2288, 2403; Head: P X George. Regd Off: Bangalore. Stock: Vencob (broiler).

FUTNANI HATCHERIES, Regd Off: Futnani Chambers, 47 Sembudoss St, Madras 600001; Ph: 22731-32. Admn Off: 13 Anna Avenue, Bhaktavachalam Nagar, Adyar, Madras 600020; Ph: 411581, Gram: Goodheart, Tlx: 41-6865 MDFG IN; Mg Partner: Kishore Futnani, Ph (resi): 411581; Gen Mgr: Dr K K Chandramohan. Farm: Sholinganallur, Old Mahabalipuram Rd, Madras 600096; Ph: 414407. Area Sales Offices: Chittoor; Erode: 50 Gandhiji Rd, -638002; Mgr: Gadadhar Sivaswamy; Sales Rep: S Mohanraj; Salem: 23A Ardhanari Chetty St, Shevapet, -636002; Ph: 51294. Residential Reps: Palladam: Rajamanickam, 12 M C Bldg, J K J Colony, -638664; Bangalore, Mangalore, Tirupati. Stock: Hy-Line W-77 and Hy-Line Tint (layer), Pearlbro Samrat (broiler).

GOVERNMENT OF TAMIL NADU; AH Dept — Poul-Farms -- Hosur 635109, Dharmapuri Dist: Poultry Farm, Kattupakkam, Kattankolathur Post 603203, Chingleput Dist; District Livestock Farms — Abishekapatti, Tirunelveli Dist; Chettinad 623102, Ramanathapuram Dist; Ph: 75; Orathanad 614625, Thanjavur Dist; Ph: 50; Pudukkottai 622001; Ph: 518.

JAYADHEVI HATCHERIES, 22-A Mohanur Rd, Namakkal 637002; Ph: 2717, Gram: Dekalb; Mg Partner: P Perumal; Tech Mgr: Dr S Rukmangadhan; Hatchery Mgr: Dr A V Parivallal. Hatchery: Keerambur; Ph: 65. Branch Off: Palladam. Stock: Dekalb.

OOTY HATCHERY & POULTRY BREEDING FARM, Mangalam Rd, Andipalayam, Tirupur 638687, Coimbatore Dist; Ph: 20030; Prop: Sulaiman, Ph (resi): 20030. Stock: Pearlbro Samrat (broiler), H & N (layer).

PERUNDURAI POULTRY FARM & HATCHERIES, Seeranampalayam, Thudupathi 638057; Ph: 446 PP, Gram: Dekalb; Chief Exec: M Lakshmanan. Stock: Dekalb (layer), Sarp (broiler).

PIONEER HATCHERIES, 7/67 Pongalur 638667, Coimbatore Dist; Ph resi: 25, farm: 35; Partners: V Leelakrishnan, P V Raghupathy, V Selvapathy, V Thimmayian. Branch: No 2, 3rd floor, 'B' Block, Parsn Apartments, 121 Mount Rd, Madras 600006; Ph: 477573, Gram: Hubchix. Stock: Hubbard (broiler).

SELVAM HATCHERIES (P) LTD, 41 President Venkat Rao Rd, PB No 18, Namakkal 637002, Salem Dist; Ph: 2976; Chmn & Mg Dir: Dr P Selvaraj; Dirs: A Thangavel, M Subramaniam, V Ponnusamy, S Jayam. Stock: Hisex White (layer), Hybro (broiler).

SOUTHERN FARM FABRICATIONS PVT LTD (Prop: Deejay Group), 160 Ramakrishna Mutt Rd, R A Puram, Madras 600028; Ph: 416429; Head: John F Mendonca. Regd Off: Bangalore. Stock: Vencob (broiler).



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TAMIL NADU POULTRY DEVELOPMENT CORPCRATION LTD (TAPCO), 561 Anna Salai, Madras 600018; Ph: 453164, Gram: Kozhiyinam; Mg Dir: K Allaudin, IAS, Ph: 450560; Sr Mgr (Tech): Dr S Arumugham; Sr Mgr (Finance): Thirunavukkarasu; Dep Sr Mgr (Tech): Dr B Gopal Koushik. Hatcheries: Arasur: Coimbatore Dist; Dep Sr Mgr: Dr Syed Tajuddin; Kappalur: Madurai Dist; Dep Sr Mgr: Dr C Padmanabhan. Stock: BV-300 (layer), Vencob (broiler).

VET-PHARM, Poul Div, 29 Police Commissioner's Office Rd, Egmore, Madras 600008; Ph: 842738, Gram: Corccombi, Tlx: 41-7547; Chmn: James Fredrick; Mg Partner: T V Raghavan; Gen Mgr: Dr A Gabriel Raj; Hatchery Mgr: Sudhakarn. Stock: Ross (broiler).

Tripura

GOVERNMENT OF TRIPURA — State Poultry Farm, PO Gandhigram, Agartala 799001; Ph: 3773; Supdt: Dr P Bandhupadyaya.

Uttar Pradesh

ASIAN AGRO FARMS INDIA LTD, Sahastradhara Rd, PB No 73, Dehra Dun 248001; Ph: 26434, Gram: Asianagro, Tlx: 595-269; Chmn & Mg Dir: Jagdish Prasad, Ph: 25362; Gen Mgr: Maj Gen (retd) S S Kaul, PVSM, Ph: 28438; Mgr Finance & Admn: N Narang, Ph: 28160; Admn Offr: P Chandra, Ph: 24423; Purchase Offr: H B L Srivastava. Farm & Hatchery: Vill Ladpur, Raipur Rd, Dehra Dun; Ph: 25936; Tech Adviser: Dr P Doval; Production Mgr: Dr N Nath; Farm Mgr: Dr J C P Verma. Regd Off: New Delhi. Stock: Ross (broiler), H & N (layer).

COMMAND AREA POULTRY DEVELOPMENT CORPN LTD, 27/6 Ram Mohan Rai Marg, Opp Krishi Bhawan, Lucknow 226006; Ph: 35751, Gram: Capco; Chmn: Smt Protima Dayal, IAS; Mg Dir: Dr V P Gupta, Ph (resi): 74126. Farm: Gopal Khera, Rai Bareli Rd, Manoharlal Ganj 227305.

DOUBLE "A" FARM LIMITED , Off: R 14/35 Raj Nagar, Ghaziabad; Ph: 846100; Chmn & Dir: B B Lal, ICS (retd). Stock: H & N (layer), Ross (broiler).

EGLINE POULTRY BREEDING FARMS, No 1 Zakir Colony, Hapur Rd, Meerut; Ph: 76796; Prop: Salimuddin. Stock: Giant (broiler), Sona Super (tinted egger), Tetra-SL (white egger).

GOVERNMENT OF UTTAR PRADESH — HQ Dep Dir (Poul): Dr S C Srivastava, Ph: 74853 — State Poultry Farms — Lucknow 226007: Chak Ganjaria, PO Bakkas; Ph: 51675; Babugarh 245201, Meerut; Agra: PO Bichpuri 283105; Aligarh 202001: Allahabad: Kulbhaskar Ashram; PO Phulpur 212402; Almora 263601: PO Hawalbagh; Azamgarh: Dadaun 243632; PO Asafpur; Banda 210001; Bareilly 243202: PO Bhojipura; Dehra Dun 248158: PO Kalsi; PO Pashulok, Ph: 31; Etawah 206001: PO Bakewar; Faizabad 224001; Farrukhabad: PO Kaimganj; Ghazipur 233001; Gonda 271001; Gorakhpur 273001: Chargawan; Jaunpur 222001: Saddiqpur; Jhansi 284001: PO Bharari; Kanpur 208018: PO Kalyanpur; Lakhimpur Kheri: PO Manjhra; Lucknow 227208: Bakshi-Ka-Talab; Mainpuri 205001: Mohsinbagh; Mathura 281002: PO Vet Coll; Meerut 250106: PO Machhra; Mirzapur 231304: PO Chunar; Moradabad 244001; Nainital: PO Rudrapur; Pithorgarh 262501: PO Bin; Pratapgarh 230001; Saharanpur 249402: PO Bahadurabad; Varanasi 221002: Kashi Vidyapith.

JIMMY'S SCIENTIFIC FARMS (Mehta Broiler Breeding Enterprise), PO Clement Town, Dehra Dun 248002; Ph: 8273, Gram: Bestbroiler; Partners: Sqn Ldr O N Mehta, B S Mehta, M K Mehta, A Mehta. Brand Name: Bestbroiler.

KUMAON HATCHERIES, Bithria, No 1 Kaladhungi Rd, PO Haripur Nayak, Haldwani 263139; Ph: 710, Gram: Kumstar; Prop: P Surender Nath. Stock: Shaver Starbro (broiler), Shaver Starcross 288 (layer).

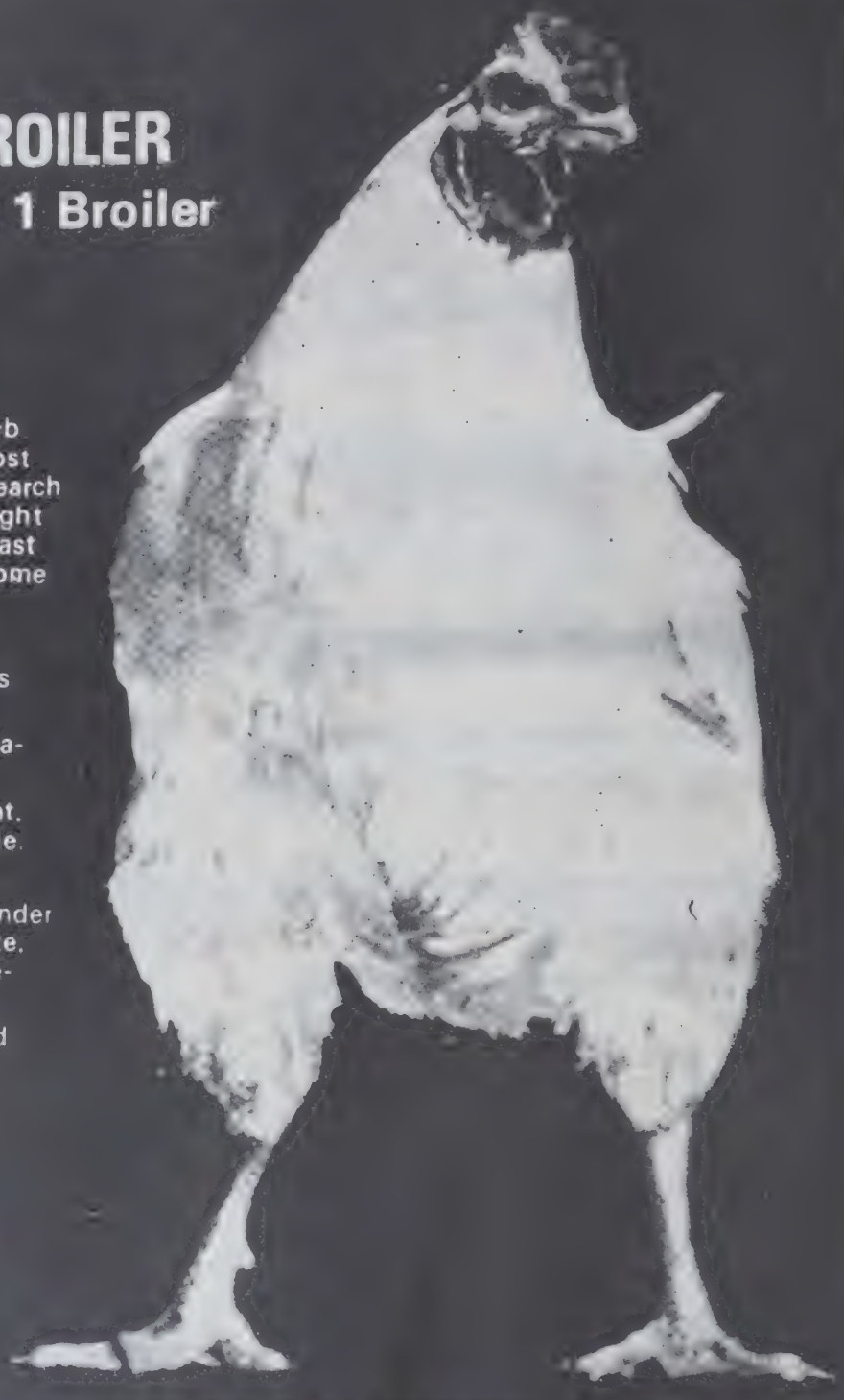
U P HATCHERIES, Vill Mandawalla, Dist Dehra Dun; Offr Incharge: Shyam Kuldeep Singh; Ops Mgr: Dr S N Patil. Stock: Vencob (broiler).

VISHAL HATCHERIES PVT LTD, 181 Patelganj, Kabari Bazar, Meerut 250001; Ph off: 72375; Farm: 9300; Mg Dir: R K Gupta, Ph: 76246 (resi).

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APSARA STARCHICK BREEDERS, 16 Palm Avenue, Calcutta 700019; Ph: 434004, 431672; Partner: Arup Sen; Gen Mgr: Shyamalendu Banerjee. Farm: Shyamsunderpur, Falta, 24-Parganas; Ph: 21 (Falta). Stock: Shaver Starbro (broiler), Shaver Starcross 288 (white egger).

ARAMBAGH HATCHERIES LIMITED, Principal Off: 59B Chowringhee Rd, Calcutta 700020; Ph: 449324, 432179, Gram: Aramhatch; Dir: P K Roy; Gen Mgr: Madan Sen; Production Mgr: Partha Sen; Sales Mgr: S K Thapar; Accountants: Basudeb Bhanja, Kanai Dutta. Regd Off & Farm: PO Arambagh, Hooghly; Ph: 15. District Offices -- (i) PO Arambagh, Hooghly; Ph: 39; (ii) PO Tarakeswar, Hooghly; Ph: 22. Stock: Ross (broiler), H & N (layer).

BIDHANNAGAR POULTRY BREEDING FARMS & HATCHERIES, Subhaspally, Siliguri 734401; Ph: 20377; Mg Ptnr: S C Ghosh.

CONTAI GOLDEN HATCHERIES (EASTERN) PVT LTD, 8/4B Dr Sundari Mohan Avenue, Calcutta 700014; Ph: 297019, Gram: Babchick; Mg Dir: K C Roy; Gen Mgr: Harbans Singh. Farm: Vill & PO Basudebpur, Contai, Midnapur Dist; Ph: 164 (Contai). Stock: BV-300 (layer), Vencob (broiler).

CONTAI HATCHERIES, 11 Palm Avenue, Ballygunge, Calcutta 700019; Ph: 432917, Gram: Hyliner; Prop: Kajal Maity. Branch: Contai, Midnapore Dist; Utpal Maity. Stock: Rhode Island Red (layer).

EASTERN HATCHERY, 197/4 Kalyan Garh 743272, 24-Parganas Dist; Ph: 180 (Habra); Proprietoress: Mrs Gitasree Ghosh; Tech Adviser: Dr B B Ghosh. City Off: 2G, Onrait 2nd Lane (opp Entally PO), Calcutta 700014; Ph: 213075. Stock: Layer & Broiler Parents.

GOVERNMENT OF WEST BENGAL -- HQ Jt Dir (Poul) -- State Poultry Farms -- Balurghat 733101, W Dinajpur Dist: Dr M M Dhar; Durgapur 713201, Burdwan Dist: Ph: 2019; Dr T K Ghosh; Gobordanga 743273, PO Khanthura, 24-Parganas Dist: Ph: 24; Dr A K Dutta; Haringhata, PO Mohanpur 741246, Nadia Dist: Ph: 432 (Kalyani); Dr S Dasgupta; Krishnagar 741101, Nadia Dist: Ph:2582; Dr P K Mitra; Midnapore 721101: Ph:519; Dr R Chaudhuri; Mohitnagar, Jalpaiguri Dist: P K Ganguly; Nimpith, PO Joy Nagar, Dist 24-Parganas: Ph: 7 (Joy Nagar); Dr R K Roy; Ranaghat 741201, Nadia Dist: Ph: 35; Dr A K Sen Gupta Stock: HH-260 (layer); Tollygunge, 42 Graham Rd, Calcutta 700040; Ph: 465314; Dr S D Chakraborty; Poultry Multiplication Centre: Kalimpong 734301, Darjeeling Dist. Stock: Australorp, Rhode Island Red and White Leghorn.

HOWRAH HY-GROW HATCHERIES, Mouri Station Rd, Unshuni Sastitala, Howrah 711004. Stock: Pearlbro Samrat (broiler).

KEGC FARMS PRIVATE LIMITED, 77 Dharamtolla St, Calcutta 700013; Ph: 444939; Mktg Controller: Dr D R Marwaha. Head Off: New Delhi.

MIDNAPORE HATCHERIES, Keranitola, Midnapore 721101, Dist Midnapore; Ph: 461 (MNP), Gram: Hubchix; Mg Partner: N C Maiti; Production Mgr: A K Maiti. Farm & Hatcheries: Bagdubi (Cope Hills), PO Mataldanga, Dist Midnapore; Ph: 882 (MNP). Calcutta Off: 41 Surya Sen St, Room No 12, Calcutta 700009. Stock: Hubbard (broiler).

NATARAJ HATCHERIES, Deshbandhu Park, Jessore Rd, PO Habra, 24-Parganas; Ph: Habra 122; Mg Partner: Nikhileswar Das. Stock: Hisex (layer), Hybro (broiler).

URBAN HI-BREED FARM PRIVATE LTD, Regd Off: 109A/1A Biplabi Rash Behari Bose Rd, Calcutta 700001; Ph: 269119, 269111, Gram: Hibreed; Mg Dir: Samarendra N Sen. Farm: Diamond Harbour Rd, PO Joka, Dist 24-Parganas; Ph: 615-281. Stock: Hy-Line W-77 (layer).

Late Additions

ANDHRA PRADESH

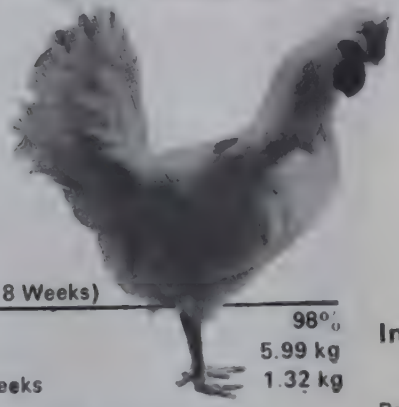
HORIZON FARMS PRIVATE LIMITED, 902 Paigah Plaza, Basheerbagh, Hyderabad 500029; Ph: 223551-2, Tlx: 155-489 HFED IN; Mg Dir: Vikaruddin S Imam, Ph (resi): 223461. Hatchery: Nalle Velli Post, 29 km Medak Rd, AP. Stock: Hubbard (broiler).

KAVERI HATCHERIES PVT LTD, Opp RTO Office, Dilsukhnagar, Hyderabad 500036; Mg Dir: Dr P Kishan Rao, Ph (resi): 559484; Dir: G N Setty, Ph (resi): 43814.

(Continued on page 344)

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The Hy-Line Variety W-77 Layer

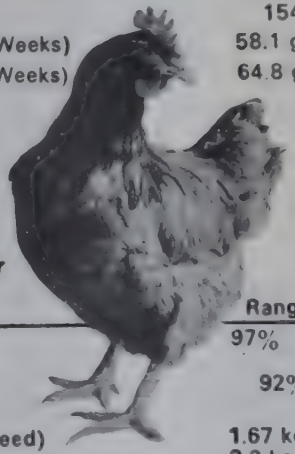
Growing Period (To 18 Weeks)	
Livability	98%
Feed	5.99 kg
Body Weight at 18 Weeks	1.32 kg

Laying Period (To 14 Months of Laying from 18 Weeks)	
Percent Peak	91%
Hen/Day Eggs	312
Hen/Housed Eggs	301
Livability	92%
Days to 50% Production	154
Average Egg Weight (32 Weeks)	58.1 g
Average Egg Weight (70 Weeks)	64.8 g



Indian River Brand Broiler Breeder

Parent Performence	Range of Performance
Livability 0-25 weeks	94-96%
26-27 weeks	90-91%
Total Eggs/Hen Housed	168-172
Hatching Eggs/Hen Housed	161-165
Lifetime Hatchability	86-88%
Broiler Performance	@52 days
Livability	96-98%
Body Weight	1.99 kg
Feed Conversion	1.93



The Hy-Line Brand Brown Layer

Performance	Range
Livability	97%
In growing period from 20-74 weeks	92%
Body Weight at 20 weeks (restricted feed)	1.67 kg
at end of lay	2.3 kg
Age at 50% production	162 days
at peak production	29 weeks
Peak Production % production	90.94%
at 74 weeks of age	58%
No. hen/day eggs 20-74 weeks	280
Average Weight at 32 weeks	60.0 g
at 74 weeks	63.3 g
Feed Consumed to 20 weeks (restricted)	7.0-7.9 kg
Feed Efficiency kg/kg eggs	2.5 kg

Hy-Line. INDIAN RIVER.

HI-BRED (INDIA) PRIVATE LTD.

Post Box 20, Karnal 132001 Haryana
Phone: 2287, 2351 (Karnal)
650697 (New Delhi)

WANTED : Associates for unrepresented areas.

Buyer's Guide

This Buyer's Guide of Hatcheries has been designed especially for buyers and sellers of commercial egg-type chicks and broiler-type chicks and is grouped brandwise. The name of the respective state is given along with hatchery's name to help locate the entry in the listing and obtain relevant information about it. It lists only authorised associates of the Breeding Farms/Franchisers.

EGG-TYPE CHICKS

BH-78

THE CENTRAL POULTRY BREEDING FARM, Government of India, Aarey Milk Colony, Bombay 400065; Phone: 692515.

Maharashtra:	Central Poultry Breeding Farm, Government of Maharashtra -- Central Hatchery, Aurangabad, Nagpur.

BV-300
BV-380T
BV-400

VENKATESHWARA HATCHERIES PVT LTD, 13/6 Milestone, Panshet Rd, PO Girinagar, Pune 411025; Phones: 442244, 442748, 442663, 442561.

Andhra Pradesh:	Balaji Hatcheries Bhagyalakshmi Hatcheries Pvt Ltd Srinivasa Hatcheries Pvt Ltd Tirumala Hatcheries Pvt Ltd Venkataramana Hatcheries Pvt Ltd Venkateshwara Hatcheries Pvt Ltd
Bihar:	Patliputra Poultry Breeding Farm Swarnrekha Farms & Hatcheries Pvt Ltd
Goa:	Mandovi Hatcheries
Gujarat:	Dattatraya Poultry Breeding Farm
Haryana:	Rajdhani Farms
Himachal Pradesh:	Shivalik Hatcheries Pvt Ltd
Karnataka:	Deejay Hatcheries Karnataka Breeding Farms Pvt Ltd Komarla Hatcheries
Madhya Pradesh:	Chattisgarh Hatcheries Pvt Ltd Phoenix Poultry
Maharashtra:	Balkrishna Hatcheries Venkateshwara Hatcheries Pvt Ltd Western Hatcheries Pvt Ltd
Punjab:	Northern Hatcheries Pvt Ltd

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DEKALB breeds for steady genetic improvement on the crucial economic traits...

The money-makers like feed efficiency, egg numbers, livability and egg size. Plus, adaptability to different environments help make DEKALB layers a STANDARD IN THE INDUSTRY.

Varuna Hatcheries (P) Ltd.



Varuna Hatcheries Pvt. Ltd.
Bandar Road
Near Benz Circle
Chandra Mouli Puram
Vijayawada 520 010
Phone : 57325

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Associates of :
SANCHI AGVET RESEARCH PVT. LTD.
301-302, Rattan Jyoti, 18 Rajendra Place,
New Delhi 110008.

	Rajasthan:	Kewalramani Hatcheries
	Tamil Nadu:	Southern Hatcheries Pvt Ltd Tamil Nadu Poultry Development Corpn Ltd
	West Bengal:	Contai Golden Hatcheries (Eastern) Pvt Ltd

DEKALB

SANCHI AGVET RESEARCH PVT LTD, 301-302 Rattan Jyoti, 18 Rajendra Place, New Delhi 110008; Phone: 5722358.

Andhra Pradesh:	Rohini Hatcheries Sulochana Hatcheries Varuna Hatcheries Pvt Ltd
Delhi:	Sanchi Agvet Research Pvt Ltd
Haryana:	Tubro Poultry Breeding Farm
Kerala:	Malabar Hatchery Pvt Ltd
Madhya Pradesh:	Earlybird Hatcheries Stellar Farms Pvt Ltd
Tamil Nadu:	Jayadhevi Hatcheries Perundurai Poultry Farm & Hatcheries
West Bengal:	Induss Hatcheries

HH-260

CENTRAL POULTRY BREEDING FARM, Government of India, Hessarghatta, Bangalore 560088; Phones: 384303 (Bangalore), 36 (Hessarghatta).

Andaman & Nicobar:	Dte of AH & Veterinary Services
Delhi:	Delhi Administration, Govt Poultry Farm
Goa:	Govt of Goa, Daman & Diu Poultry Farm
Gujarat:	Govt of Gujarat Poultry Farms, Junagadh, Surat
Haryana:	Govt of Haryana Poultry Farms, Ambala, Bhiwani
Himachal Pradesh:	Govt of Himachal Pradesh
Jammu & Kashmir:	Govt of Jammu & Kashmir
Karnataka:	Central Poultry Breeding Farm
Punjab:	Govt Poultry Farm, Jalandhar Pure Lines Breeding Farm
Rajasthan:	Govt of Rajasthan Poultry Farm
Sikkim:	Govt of Sikkim, Experimental Poultry Breeding Farm
West Bengal:	State Poultry Farm, Ranaghat

H & N

ASIAN AGRO FARMS INDIA LTD, 6 Community Centre, East of Kailash, New Delhi 110065; Phone: 6432994-5.

Andhra Pradesh:	Krishna Hatcheries Pvt Ltd Raja Rajeshwara Hatcheries Pvt Ltd Simhapuri Hatcheries
Delhi:	Asian Agro Farms India Ltd
Karnataka:	Desai Hatcheries
Maharashtra:	Asian Agro Farms India Ltd

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Take a look:

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Farm & Hatchery
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BV-300

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	West Bengal:	Arambagh Hatcheries Ltd

HISEX WHITE

ESSEX FARMS PVT LTD, 4 Aurobindo Marg, New Delhi 110016; Phones: 653537-38, 657584.

Delhi:	Goldie Hisex Farms Pvt Ltd
Gujarat:	Shakti Hatcheries
Haryana:	Goldie Hisex Farms Pvt Ltd
Karnataka:	Koteswara Hatcheries Pvt Ltd
Madhya Pradesh:	Sakure Hatcheries
Maharashtra:	Annie's Poultry Breeding Farm
Punjab:	Goldie Hisex Farms Pvt Ltd
Rajasthan:	J B Poultry & Agriculture Farm
Tamil Nadu:	Selvam Hatcheries (P) Ltd
West Bengal:	Natraj Hatcheries

HY-LINE W-77

HI-BRED (INDIA) PVT LTD, Post Box No 20, Karnal 132001, Haryana; Phone: 2297.

Andhra Pradesh:	CBR Hatcheries Pvt Ltd Kranthi Hatcheries
Bihar:	Urban Hi-Breed Farm Pvt Ltd
Gujarat:	Patel Poultry Breeding Farm
Karnataka:	Shree Nagar Hatcheries
Maharashtra:	C & M Farming Pvt Ltd
Punjab:	Garcha Poultry Breeding Farm
Rajasthan:	Bhagwan Hatcheries
Tamil Nadu:	Futnani Hatcheries
West Bengal:	Urban Hi-Breed Farm Pvt Ltd

LONGLAY ILI-80

CENTRAL AVIAN RESEARCH INSTITUTE, IVRI Campus, Izatnagar 243122; Phones: 74332, 74230, 74095, 76095.

Arunachal Pradesh:	Central Hatchery, Nirjuli
Haryana:	Govt Poultry Farm, Hissar
Punjab:	Govt Poultry Farm, Gurdaspur
Rajasthan:	Govt Poultry Farm, Jaipur
Tamil Nadu:	AVM Hatcheries & Poultry Breeding Research Centre Pvt Ltd
Tripura:	Govt of Tripura, State Poultry Farm
Uttar Pradesh:	Govt Poultry Farms, Almora, Gorakhpur, Mirzapur, Pratapgarh

KALINGA	CENTRAL POULTRY BREEDING FARM, Government of India, Bhubaneswar 751013; Phones: 51875, 58795.	
KEYSTONE COLOR KEYSTONE WHITE	KEGG FARMS PRIVATE LIMITED, Eros Apartments, 8th Floor, 56 Nehru Place, New Delhi 110019; Phones: 6431642, 6432011.	
	Andhra Pradesh:	Singh Poultry Pvt Ltd
	Delhi, Haryana & Punjab:	Kegg Farms Pvt Ltd
	Himachal Pradesh:	Snowhite Poultry Breeding Farm
	Karnataka:	Dakshin Kegg Pvt Ltd
	Rajasthan:	Govt Poultry Farm, Ajmer
KYLIRI	Karnataka:	Govt of Karnataka, State Poultry Farm
PEARL SEVALI POONA PEARLS	POONA PEARLS POULTRY BREEDING FARMS & HATCHERIES, Jijajee Nagar, Hadapsar, Pune 411028; Phones: 69177, 70477.	
	Andhra Pradesh:	Arvind Hatchery
	Delhi:	Poona Pearls Poultry Breeding Farms & Hatcheries
	Jamm. & Kashmir:	Sun Valley Poultry Breeding Farms & Hatcheries
	Karnataka:	South West Pearls Hatchery (P) Ltd
	Punjab:	Manjeet Hatcheries
SHAVER STARCROSS 288	RANISHAVER POULTRY BREEDING FARMS PVT LTD, 3, Shopping Centre, West End, New Delhi 110021; Phones: 670611, 671126, 673665.	
	Karnataka:	The India Poultry Farm
	Maharashtra:	Rani Hatcheries (Maharashtra) Pvt Ltd
	Punjab:	Maharani Poultry Breeding Farm
	Uttar Pradesh:	Kumaon Hatcheries
	West Bengal:	Apsara Starchick Breeders
UNIBROWN UNITINT UNISEX	UNIVERSAL POULTRY BREEDING FARM, 1/278C, Kashmere Gate, Delhi 110006; Phones: 2522263, 2522264.	
OTHERS	Gujarat:	Govt of Gujarat -- Regional Poultry Breeding Farms & Hatcheries
	Madhya Pradesh:	Govt of Madhya Pradesh -- Govt Poultry Farm
	Maharashtra:	Govt of Maharashtra -- Central Hatcheries
	Meghalaya:	Regional Poultry Breeding Farm
	Sikkim:	Govt of Sikkim, Dept of AH, Experimental Poultry Breeding Farm
	West Bengal:	Contai Hatcheries Eastern Hatchery Govt of West Bengal, State Poultry Farms

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KEYSTONE GOLDEN KEYSTONE WHITE	KEGG FARMS PRIVATE LIMITED, Eros Apartments, 8th Floor, 56 Nehru Place, New Delhi 110019; Phones: 6431642, 6432011.	
	Andhra Pradesh:	Singh Poultry Pvt Ltd
	Delhi, Haryana & Punjab:	Kegg Farms Pvt Ltd
	Himachal Pradesh:	Snowhite Poultry Breeding Farm
	Karnataka:	Dakshin Kegg Pvt Ltd
	Rajasthan:	Govt Poultry Farm, Ajmer
MYCHIX	Karnataka:	Govt of Karnataka, State Poultry Farm
PEARL SONALI PEARL TARA-287	POONA PEARLS POULTRY BREEDING FARMS & HATCHERIES, Jiyajee Mansion, Hadapsar, Pune 411028; Phones: 70177, 70477.	
	Andhra Pradesh:	Arvind Hatchery
	Delhi:	Poona Pearls Poultry Breeding Farms & Hatcheries
	Jamm. & Kashmir:	Sur Valley Poultry Breeding Farms & Hatcheries
	Karnataka:	South West Pearls Hatchery (P) Ltd
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	Maharashtra:	Rani Hatcheries (Maharashtra) Pvt Ltd
	Punjab:	Maharani Poultry Breeding Farm
	Uttar Pradesh:	Kumaon Hatcheries
	West Bengal:	Apsara Starchick Breeders
UNIBROWN UNITINT UNISEX	UNIVERSAL POULTRY BREEDING FARM, 1/2780, Kashmere Gate, Delhi 110006; Phones: 2522263, 2522264.	
OTHERS	Gujarat:	Govt of Gujarat — Regional Poultry Breeding Farms & Hatcheries
	Madhya Pradesh:	Govt of Madhya Pradesh — Govt Poultry Farm
	Maharashtra:	Govt of Maharashtra — Central Hatcheries
	Meghalaya:	Regional Poultry Breeding Farm
	Sikkim:	Govt of Sikkim, Dept of AH, Experimental Poultry Breeding Farm
	West Bengal:	Contai Hatcheries Eastern Hatchery Govt of West Bengal, State Poultry Farms

H&N "Nick Chick"

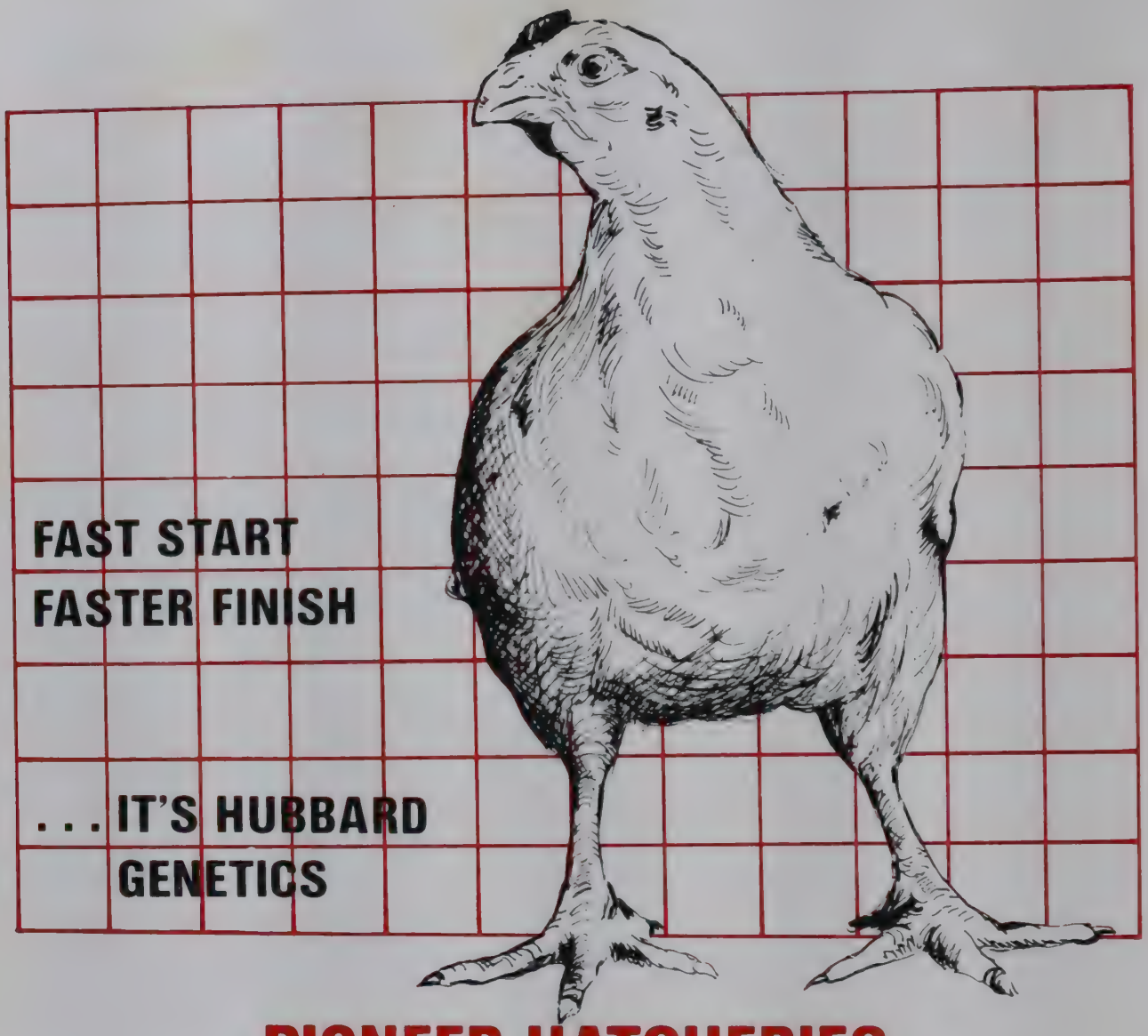


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Gujarat:	Central Poultry Farm, Surat
Orissa:	Central Poultry Breeding Farm
Uttar Pradesh:	Govt Poultry Farm, Mirzapur

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Gujarat:	Trimbak Hatcheries Pvt Ltd (See Maharashtra)
Haryana:	T P S Research & Breeding Farm
Karnataka:	The India Poultry Farm
Madhya Pradesh:	Earlybird Hatcheries
Maharashtra:	Ashok Kumar Hatcheries Pvt Ltd
Punjab:	Arjan Singh Poultry Farm
Sikkim:	Sikkim Livestock Development Corpn Ltd
Tamil Nadu, Karnataka & Kerala:	Pioneer Hatcheries
West Bengal:	Midnapore Hatcheries

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Assam:	Manas Products (Protein) Pvt Ltd
Bihar:	Urban Hi-Breed Farm Pvt Ltd
Delhi:	Goldie Hisex Farms Pvt Ltd
Gujarat:	Dwarkesh Broiler Breeders
Haryana:	Goldie Hisex Farms Pvt Ltd
Himachal Pradesh:	Sevee Breeding Farm
Jammu & Kashmir:	Hi-Pick Poultry Breeding Farm
Karnataka:	Koteswara Hatcheries Pvt Ltd
Kerala:	Star Plastics
Madhya Pradesh:	Sakure Hatcheries
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	Tamil Nadu:	Selvam Hatcheries (P) Ltd
	West Bengal:	Natraj Hatcheries
INDIAN RIVER	HI-BRED (INDIA) PRIVATE LIMITED, Post Box No 20, Karnal 132001, Haryana; Phone: 2287.	
	Andhra Pradesh:	Kranthi Hatcheries
	Gujarat:	Patel Poultry Breeding Farm
	Karnataka:	Hy-Lay Hatcheries Pvt Ltd
	Punjab:	Nevedac Hatcheries
	Tamil Nadu:	Esbece Hatcheries
KEGGBRO	KEGG FARMS PRIVATE LIMITED, Eros Apartments, 8th Floor, 56 Nehru Place, New Delhi 110019; Phones: 6431642, 6432011.	
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	Delhi & Haryana:	Kegg Farms Pvt Ltd
	Himachal Pradesh:	Snowhite Poultry Breeding Farm
	Karnataka:	Dakshin Kegg Pvt Ltd
	Punjab:	H S Poultry Farm
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	Andhra Pradesh:	Andhra Pradesh State Meat & Poultry Development Corpn Ltd Arvind Hatchery CBR Hatcheries Pvt Ltd Mayuri Hatcheries Pvt Ltd
	Delhi:	Poona Pearls Poultry Breeding Farms & Hatcheries
	Haryana:	Sussex Breeding Farm & Hatcheries
	Jammu & Kashmir:	Sun Valley Poultry Breeding Farms & Hatcheries
	Karnataka:	South West Pearls Hatchery (P) Ltd
	Kerala:	Tens Hatcheries
	Punjab:	Duggal Poultry Breeding Farms Guru Nanak Hatcheries Manjeet Hatcheries V S R Hatcheries & Breeding Farms
	Rajasthan:	J B Poultry & Agriculture Farm
ROSS	ASIAN AGRO FARMS INDIA LTD, 6, Community Centre, East of Kailash, New Delhi 110065; Phone: 6432994-5.	
	Andhra Pradesh:	Krishna Hatcheries Pvt Ltd Raja Rajeshwara Hatcheries Pvt Ltd

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	Kerala:	T R Farms
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	Rajasthan:	Ranawat Poultry Breeding Farm
	Tamil Nadu:	Vet-Pharm
	Uttar Pradesh:	Asian Agro Farms India Ltd Double "A" Farm Limited
	West Bengal:	Arambagh Hatcheries Ltd

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Tamil Nadu:	Jayadhevi Hatcheries Perundurai Poultry Farm & Hatcheries
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Delhi & Haryana:	RaniShaver Poultry Breeding Farms Pvt Ltd
Maharashtra:	Rani Hatcheries (Maharashtra) Pvt Ltd
Punjab:	Maharani Poultry Breeding Farm
Uttar Pradesh:	Kumaon Hatcheries
West Bengal:	Apsara Starchick Breeders

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UNIVERSAL POULTRY BREEDING FARM, 1/2780, Kashmere Gate, Delhi 110006; Phone: 2522263-4.

VENCOB

VENKATESHWARA HATCHERIES PVT LTD, 13/6 Milestone, Panshet Rd, PO Girinagar, Pune 411025; Phones: 442244, 442748, 442663, 442561.

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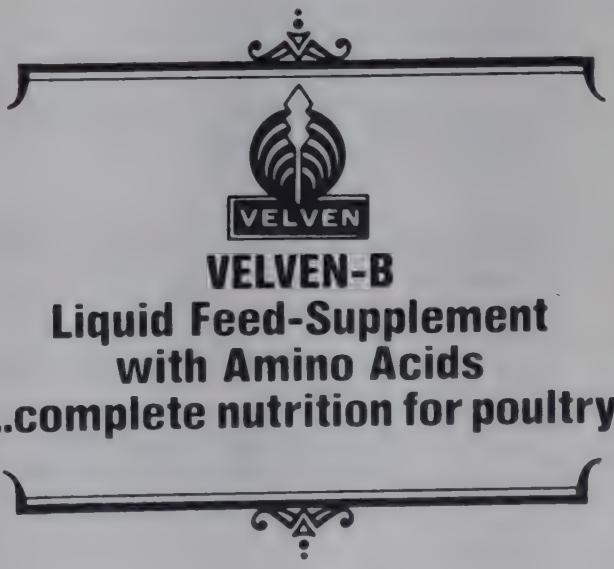
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ESSEX FARMS PRIVATE LIMITED, 4 Aurobindo Marg, New Delhi 110016; Ph: 653537, 653538, 664056, 237832 (resi), Gram: Sausage, Tlx: 031-2860 Essex; Chmn: Smt R R Goyle; Dirs: Anand K Goyle, Arun K Goyle; Tech Mktg Adviser: Dr A P Sachdev, Ph off: 657584, resi: 502929. Farm: Khewra, Dist Sonepat, Haryana; Ph: 2136; Farm Mgr: Dr V B Sharma. Breeding Farm: 17 Milestone, G T Karnal Rd, Vill Kundli, Sonepat, Haryana; Ph: 747378, 747374; Admn Offr: G Singh. Stock: Hisex White (layer), Hybro (broiler). Source of Stock: Euribrid BV, The Netherlands.

HI-BRED (INDIA) PVT LTD, PB No 20, Karnal 132001. Location: Vill Kulwahri, PO Subri, Teh & Dist Karnal; Ph: 2267, Gram: Hibred; Mg Dir: Gurdip Singh; Production Mgr: H A Khan, 268 Housing Board Colony, Karnal 132001; Ph: 2351. Regd Off: S-260 Panch Shila Park, New Delhi 110017; Ph: 650697. Farm: Vill Kulwahri, Kunjpura Rd, Karnal; Hatchery Mgr: S Ramani. Stock: Hy-Line Tint (tint egger), Hy-Line W-77 (white egger), Indian River (broiler). Source of Stock: Hy-Line Indian River Company, USA.

RANISHAVER POULTRY BREEDING FARMS PVT LTD, 3 Shopping Centre, West End, New Delhi 110021; Ph: 670611, 671126, 673655, 674155, Gram: Ranishaver, Tlx: 31-5568 RANI IN; Estd: 1962. Chmn: Smt Raj Rani Nehra; Partner: Maj-Gen R N Nehra; Vice-Chmn & Tech Dir: Sanjiv K Nehra; Mg Dir: Maj A K Nehra; Gen Mgr: Maj C D Khurana; Gen Mgr (Exports): Col Harbaksh Singh. Farm: Milestone 15.2, Palam-Gurgaon Rd, Gurgaon, Haryana. Area Representative — Ambala City: 134 Model Town; B J Singh; Ludhiana: 376-R Model Town; Dr G M Singh; and 506-L Model Town; Dr I S Kapur. Stock: Shaver Starbro (broiler) and Shaver Starcross 288 (white egger). Source of Stock: Shaver Poultry Breeding Farms Ltd, Canada.

SANCHI AGVET RESEARCH PRIVATE LIMITED, 301-302 Rattan Jyoti, 18 Rajendra Place, New Delhi 110008; Ph: 5722358, Gram: Dekalb; Tlx: 31-62507 IGL IN; Dir: Dr M Kuppusamy; Consultant: Dr Surendra Singh. Stock: DeKalb (layer), Sarp (broiler). Source of Stock: DeKalb AgResearch Inc, USA (layer).

LATE ADDITION

BLV HATCHERIES PVT LTD, 1-1-169/A, Charminar X Roads, Hyderabad 500020; Ph: 68191, Gram: Belvel; Mg Dir: K Bhasker Rao. Stock: Lohmann LSL (layer), Lohmann (broiler).

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(a) Chick (0-8 weeks)	98 per cent
(b) Grower (9-20 weeks)	96 per cent
(c) Adult (21-72 weeks)	92 per cent
Age at first egg	120 days
Age at 50 per cent production	152 days
Age at peak production	28-29 weeks
Peak production (Hen Housed)	90-94 per cent
Annual egg production	260 eggs
Egg weight at 32 weeks	54 gms.
Body weight at 21 weeks	1.2 kgs.
Body weight at 40 weeks	1.7 kgs.
Daily feed consumption bird (in lay)	105-110 gms.
Feed efficiency (kg. feed/kg. eggs)	3.0 kgs.

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11. Messrs Pureline Breeding Farm, Patti, Amritsar
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ENQUIRY FOR ASSOCIATESHIP INVITED

Breeding Farms

Poultry breeding farms in the public and private sectors are listed below, starting with government farms. Breeding centres for ducks and other fowls are grouped separately. Commercial and research stock maintained have been indicated, wherever possible.

Public Sector

CENTRAL POULTRY BREEDING FARM, Govt of India, Hessarghatta, Bangalore 560088; Ph: 384303, 36 (HGT), Gram: Regpofarm; Dir: Dr K A Reddy; Asst Dir: Dr N Rajeswara Rao; Hatchery Offr: Dr S V Goudar; Asst Statistician: L K Urs; Farm Supervisors: Dr K Ravikumar, A G Kulkarni. Stock: HH-260 (White Leghorn Strain-Cross). Research: White Leghorn Strains (Strains 1,2,3 & 4, control and Miniline), Strain Crosses. Associate Hatcheries: Andaman & Nicobar: Dte of AH & Vet, Port Blair; Bihar: Bihar Vet College Poultry Farm, Ranchi; Delhi: Govt Poul Farm, Satbari, Mehrauli; Goa: ICAR Complex (CPCRI), Margao; Gujarat: Govt Poul Farms, Junagadh & Surat; Haryana: Govt Poul Farm, Ambala City; Himachal Pradesh: Dir of AH; Jammu & Kashmir: Dir of AH; Punjab: Govt Poul Farm, Jalandhar; Pure Line Breeding Farm, Patti; Rajasthan: Govt Poul Farm, Ajmer; Sikkim: Sikkim Livestock Dev Corpn, Gangtok; Uttar Pradesh: Vishal Hatcheries Pvt Ltd, Meerut; West Bengal: Govt Poul Farm, Ranaghat.

CENTRAL POULTRY BREEDING FARM, Govt of India, Bhubaneswar 751013; Ph: 51875, 55735, Gram: Regpofarm; Dir: Dr S Ranjan; Asst Dir: Dr S P Jana; Hatchery Offr: D S Pandey; Farm Supervisors: Dr P K Panda, H Sethi; Asst Statistician: B K Mohanty. Stock: Rhode Island Red, White Leghorn, Commercial Kalinga Hybrid, Rhode white brown egg layer.

CENTRAL POULTRY BREEDING FARM, Govt of India, Aarey Milk Colony, Bombay 400065; Ph: 692515; Dir Incharge: Dr A C Kanhar; Hatchery Offr: Dr P P Sharma; Asst Statistician: O P Vyas; Farm Supervisors: T C Joshi, S B Rai, Dr S D Bhosale, Daryab Singh. Stock: BH-78 and four strains of WLH. Associates — State Poul Farms — Gujarat: Baroda and Surat; Jammu & Kashmir: Belicharana; Maharashtra: Dhulia, Nagpur.

CENTRAL POULTRY BREEDING FARM, Govt of India, Industrial Area, Chandigarh 160002; Ph: 41491, 24461; Dir: Dr Harpal Singh; Mgr: Dr M Ahmed. Stock: Broilers.

GOVERNMENT OF ASSAM — Coordinated Poultry Breeding Programme & Intensive Broiler Production Project: Khanapara, Guwahati 781022; Ph: 87370.

GOVERNMENT OF BIHAR, Central Poultry Farm, off Pclo Rd, Patna 800001; Ph: 25396; Gen Mgr-cum-Poul Dev Offr: Dr S Jalal Ahmed.

GOVERNMENT OF GUJARAT, Regional Poultry Breeding Farm, Makarba, Post Vejalpur 389340; Ph: 79385; also at Dahod (Panchmahals), Junagadh, Surat and Vadodara. Stock: White Leghorn (HH-260), Rhode Island Red.

GOVERNMENT OF KARNATAKA, Dept of AH & Vet Services, State Poultry Farm, Hessarghatta, Bangalore 560089; Ph: 384377; Estd: 1948; Head: Dr C L Ramanatha Guptha; Sr Asst Dir: Dr S Yogananda; Asst Dir (Stores & Trg): Dr B S Viswanath; Asst Poul Nutritionist: Dr K G Rajagopal; Asst Dir (Hatchery): Dr A R Jayakeerthi. Stock: Mychix.

GOVERNMENT OF KERALA, Central Hatchery, Angadical South PC, Chengannur 689122, Alleppey Dist; Ph: 277, Gram: Hatchery; Production Mgr: Dr K O Oommen.

GOVERNMENT OF MADHYA PRADESH COORDINATED POULTRY BREEDING FARM, Bhopal 462003; Ph: 62229; Dep Dir (Poul Res): Dr P D Limaye. Stock: Kadaknath (Desi), New Hampshire, White Cornish, White Leghorn, White Rock; Commercial: Ratna.

GOVERNMENT OF MAHARASHTRA HATCHERIES — Aurangabad 431001: Dr K N Kulkarni, Ph: 3896; Dhule 424001: Dr M D Bhagwat; Kolhapur 416006: Bavda; Ph: 24729; Mgr: Dr V K Limaye; Nagpur 440006: Telankhedi; Ph: 31258; Mgr: Dr M N Paratkar; Pune 411003: Kirkee; Ph: 55974; Mgr: Dr G R Naik. Stock: Black Australorp (Parafield Strain) and White Leghorn (T & V Strains).

GOVERNMENT OF MEGHALAYA, Regional Poultry Breeding Farm, Kyrdemkulai, PC Nayabunglow, East Khasi Hills; Mgr: Dr H N Borah.

GOVERNMENT OF ORISSA STATE POULTRY BREEDING FARM, Angul 759122, Dhenkanal Dist; Ph: 81; Dep Dir (Poul Breeding & Res): Dr K M Mohanty; Regional Poul Breeding Farms: Koraput 764020; Ph: 14; Offr Incharge: Dr S K Das; Sundargarh 770001; Ph: 69; Offr Incharge: Dr S K Sahoo.

GOVERNMENT OF PUNJAB BREEDING FARMS — Asst Dirs (Poultry Dev) — Gurdaspur: Dr R S Sodhi, Ph: 377; Jalandhar: Dr Mohan Singh Saini, Ph: 77377; Kotkapura 151204: Dr Kaur Singh; Malerkotla 148203: Dr Rajinder Singh Grewal; Patiala: Harbhajan Singh Rai, Ph:74116.

GOVERNMENT OF WEST BENGAL STATE POULTRY FARM, 42 Graham Rd, Tollygunge, Calcutta 700040; Ph: 465314; Proj Offr (Poul) & Incharge, Breeding Programme: Dr S D Chakraborty.

Private Sector

KASILA FARMS PRIVATE LIMITED, 902 Paigah Plaza, 5-9-30/5 Basheerbagh, Hyderabad 500029; Ph: 223551 (2 lines), Gram: Hubchix, Tlx: 155-6489 HFED IN; Chmn: Shaik Imam; Mg Dir: Vikaruddin Shaik Imam; Chief Geneticist: Dr T Kotaiah; Production Adviser: Dr V Seetha Rama Rao; Company Secretary: M I John; North Zone Mktg Mgr: Habib Khan, 63 Ring Rd, Lajpat Nagar III, New Delhi 110024. Pureline Breeding Farm: 48 km Stone, Hyderabad-Medak Rd, Narsapur Tq 502313, Medak Dist, Andhra Pradesh. Stock: Hubchix (broiler). Source of Stock: Hubbard Farms, New Hampshire, USA.

KEGG FARMS PRIVATE LIMITED, Eros Apartments, 8th Floor, 56 Nehru Place, New Delhi 110019; Ph: 6431642, 6432011, Gram: Keggfarms, Tlx: 031-4590; Pres & Mg Dir: V S Kapur; Vice-Pres (Mktg) & Dir: Shashi Kapur; Gen Mgr (Admn & Human Resources): Lt Col Pardaman Singh (retd); Sales Mgr: V D Banati; Mktg Mgr: P Sundra. Regional Offices — East: 77 Dharamtolla St, Calcutta 700013; Ph: 444939;Mktg Controller: Dr D R Marwaha; North: 240-A Sarabha Nagar, Ludhiana 141001; Ph: 29778, Tlx: 0386-258; Regl Mgr (North): S S Sodhi; Regl Sales Mgr: T T S Rekhi; South: 5 Vimala Bldgs, Residency Rd, Bangalore 560025; Ph: 561074, Tlx: 0845-8189; Sales Mgr: S V Sutrave; West: B-1/12 Museum Coop Soc, Dholey Patil Rd, Pune 411001; Ph: 66434. Farm & Hatcheries: Gurgaon; Vice-Pres (R & D) & Dir: Thakur Ram Autar Singh, Ph off: 20039, resi: 22313. Basic Breeding Unit: Khandsa: B-15/A, DIF Colony, Gurgaon; Ph: 21616; Chief Ops Mgr: Deepak Kapur, Ph (resi): 21637. Parent Stock Farms: Daulatabad: Daulatabad Rd, Gurgaon; Ph: 20891; Pamposh: Bijwasan Rd, New Delhi 110037; Ph: 392025. Stock: Keggbro (broiler), Keystone Golden (tinted egger), Keystone White (white egger). Source of Stock: Parks Poultry Farm, Altoona, USA and others.

POONA PEARLS POULTRY BREEDING FARMS & HATCHERIES, Jiyajee Mansion, Hadapsar, Pune 411028; Ph: 70177, 70477, Gram: Pearls, Tlx: 0145-425 DAMU IN; Mg Partner: Gp Capt D M Oka (retd); Partner: S M Oka (Kalyan); Geneticist: Dr Ajay Mathur; Sales Offr: Dr M G Inamdar; Office Sec: G R C Nair; Chief Accounts Offr: Sqn Ldr V G Bhat. Farm & Hatcheries — Maharashtra: P S Farm, Vill Uruli Dewachi; P L Farm, Nandur. Branches — Northern Off: 201 Vikram Towers, Rajendra Place, Pusa Rd, New Delhi 110008; Ph: 5718497, Gram: Rupali; Southern Off: 31st, 2nd Main Rd,Gangenahalli, Bangalore 560032; Ph: 365687, Gram: Pearls, Tlx: 0845-8181 DAMU IN. Stock: Pearl Tara 287 (white egger), Pearl Sonali (golden egger), Pearlbro Samrat, Pearl Vikram (broilers).

UNIVERSAL POULTRY BREEDING FARM, 1/2780 Kashmere Gate, Delhi 110006; Ph: 2522263-64, Gram: Chickchick; Partners: H Katyal, V Katyal. Breeding Unit: Vill Garhi Harsaru, Gurgaon Dist, Haryana; Hatchery: Chandernagar. Stock: Unibro (broiler), Unibrown, Uni Tint, Unisex White (layers); Universal Mini Broiler, Universal Fantabulous 84 broiler.

VENCO RESEARCH & BREEDING FARM LTD, 13/6 Milestone, Panshet Rd, PO Girinagar, Pune 411025; Ph: 442244, 442748, Gram: Babcock, Tlx: 0145-329 VASU IN, 0145-

-319 VHPL IN; Chief Geneticist: Dr G L Jain; Dirs: Chester E Hobart, Dr John M Swanson, B V Rao, Dr R G Patil, Dr M A Samad. Stock: Pure Lines (brcilers) (Cobb).

VENKATESHWARA HATCHERIES PRIVATE LIMITED, 13/6 Milestone, Panshet Rd, PO Girinagar, Pune 411025; Ph: 442244, 442748, 442663, 442561, Gram: Babcock, Tlx: 0145-319 VHPL IN, 0145-329 VASU IN; Mg Dir: B V Rao; Dirs: S B Thorat, Ms B Anuradha Rao; Dir, Southern Operations: C Jagapati Rao; Dir, Mktg & Planning: V N Dubey; Dir, Poul Operations, Hyderabad: M P Seshaiah; Chief Exec, Specific Pathogen Free Eggs: B Venkatesh Rao;Gen Mgr Tech:Dr R G Patil; Gen Mgr, Mktg: Dr M A Samad; Adviser, Management: Air Marshal H R Chitnis; Gen Mgr, Western Operations: Gulam Harianawalla; Chief Geneticist, Pune Lines: Dr G L Jain; Gen Mgr, Finance: V U Runwal; Company Secretary: K Nageswaran; Financial Adviser: R M Pradhan; Gen Mgr (Northern Operations): Dr S Samal; Systems Mgr: A R Kher; Dep Gen Mgr (Finance): G C Mendjogi; Gen Mgr (East): Harbans Singh; Dep Gen Mgr, Export Promotion: M A Baksh; Asst Gen Mgr, Imports & Exports: T P N Kutty; Operations Mgr: P K Kutty; Exec Asst to Mg Dir: P V R Murthy; Public Relations Mgr: B Ravinder Reddy; Personnel & Admn Mgr: Wing Cdr S D Karnik. Regd Off: IV-H Subhodaya Apartments, 4-1-1233 Boggulkunta, Hyderabad 500001; Ph: 237254, 237255, 236424, Gram: Babcock, Tlx: 0155-724 VASU IN. Bombay Off: 153 Mittal Tower, Nariman Point Bombay 400021; Ph: 243839, Tlx: 011-5754 VASU IN. Delhi Off: 1797 Kotla Mubarakpur, New Delhi 110024; Ph: 698178, Tlx: 031-5398 VASU IN. Stock: BV-300, BV-380T, BV-400 (layers), Vencob (brciler). Source of Stock: Babcock Poultry Farm, Inc, USA and Cobb Inc,USA.

VENKATESHWARA RESEARCH & BREEDING FARM LTD, 13/6 Milestone, Panshet Rd, PO Girinagar, Pune 411025; Ph: 442244, 442748, Gram: Babcock, Tlx: 0145-329 VASU IN, 0145-319 VHPL IN; Chief Geneticist: Dr G L Jain; Geneticist: Dr M Prakash Babu; Dirs: John W Hough, Alain Audubert, B V Rao, S B Thorat. Stock: Pure Lines (ISA Babcock) (layers).

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GOVERNMENT OF ASSAM STATE CENTRAL DUCK BREEDING FARM, Kaliabor, Nowgong Dist; Duck & Poultry Farms — Cachar Dist: Silcoorie 788118, Silchar; Kamrup Dist: Hajo 781102; Sibsagar Dist: Joysagar 785640. Stock: Khakhi Campbell.

GOVERNMENT OF BIHAR, State Duck Breeding Farm, Supaul, Dist Saharsa.

GOVERNMENT OF J & K DUCK BREEDING FARM, Sumbal, Sonawari; Ph: 34 (Sumbal); Mgr: Dr Abdul Majeed Koul. Stock: Khaki Campbell, White Pekin.

GOVERNMENT OF KERALA DUCK FARM, Niranam 689621, Alleppey Dist.

GOVERNMENT OF ORISSA, Duck Breeding Farm, Khapuria, Cuttack 753010; Ph: 23022, 22296.

GOVERNMENT OF TRIPURA; Dte of AH — Regional Exotic Duck Breeding Farm, R K Nagar Farm Complex, Khayerpur, Tripura West; Asst Dir-cum-Farm Supdt: Dr B N Singha.

HARYANA AGRICULTURAL UNIVERSITY, Dept of Livestock Production & Management Hissar 125004, Haryana; Ph: 3621 Ext 231, Gram: Agrivarsity; Head: Dr V N Tripathi; Incharge: Dr R A Singh. Stock: White Pekin ducks and Minikos.

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HARYANA AGRICULTURAL UNIVERSITY, Dept of Livestock Production & Management, Hissar 125004, Haryana; Ph: 3621 Ext 231, Gram: Agrivarsity; Head: Dr V N Tripathi; Incharge: Dr R A Singh. Stock: Japanese Quail.

UNIVERSITY OF AGRICULTURAL SCIENCES, Post Bag No 2477, Hebbal, Bangalore 560024; Ph: 365383; Head, Div of Animal Scs: Dr B S Ramappa.

Turkey Breeding

HARYANA AGRICULTURAL UNIVERSITY, Dept of Livestock Production & Management, Hissar 125004; Ph: 3621 Ext 231, Gram: Agrivarsity; Head: Dr V N Tripathi; Incharge: Dr R A Singh. Stock: Beltsville Small White Turkey.

MOHANLAL SUKHADIA UNIVERSITY, Rajasthan College of Agriculture, Udaipur 313001; Ph: 4335, Gram: Rajcolagri — Mgr, Poul Farm.

HATCHERIES

(Continued from page 321)

ASSAM

ARAMBAGH HATCHERIES LTD, Sales Off: Manipuri Basti, G S Rd, Guwahati 781007; Ph: 32225. Head Off: Calcutta. Stock: H & N (layer), Ross (broiler).

DELHI

MODERN RESEARCH & BREEDING FARM, 1650-51 DLF, Chattarpur, Mehrauli, New Delhi 110030; Ph: 651665; Partners: Amar Nath Juneja, Sunder Lal Juneja, Baldev Juneja, Surjit Singh Saggu. Stock:Hybro (broiler).

MEGHALAYA

ARAMBAGH HATCHERIES LTD, c/o Mrs B Ryntathiang, PO Behrapani, Meghalaya; Mgr: P Mukherjee. Sales Off: c/o Col V S Bahal, Nelsi Dene Compound, Mile 3½ Upper Shillong, Shillong 793005; Ph: 26837. Head Office: Calcutta.

PUNJAB

SUTLEJ HATCHERIES PVT LTD, Nawashahr Doaba, Dist Jalandhar; Mg Dir: Kulwant Singh. Stock: Vencob (broiler).

BB BB

BEST BROILER

DAY-OLD CHICKS

EXCLUSIVE BROILER HATCHERY OF

JIMMY'S SCIENTIFIC FARM

(Mehta Broiler Breeding Farm)

P.O. Clement Town Dehra Dun, India, 248002

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Converts feed most efficiently

Is disease resistant

Gives best profits to Broiler Farmer

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BEST BROILER for better profits BEST BROILER

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Use Prestige poultry and cattle feeds for higher performance and profit

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8/8, KILOMETER STONE, NAGARJUNA SAGAR ROAD,
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CABLE : 'PRESTIGE', TELEPHONE : 559407

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Most breeders are using our feed and getting the best performance. What is good for the breeders is good for commercial too.

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Also, full range of quality poultry and livestock feeds at reasonable rates. Our feed is tested at own farm — the largest in Delhi.

Benefit from 23 years experience of Amar Nath Juneja in poultry feed ingredients and formulations.

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89, Village & P.O. Chattarpur, Mehrauli, New Delhi 110 030
Phones: 664992, 667292; resi: 653436, 663868

Feed Manufacturers

Poultry manufacturing units in the public, cooperative and private sectors are listed below, arranged alphabetically. At the end of this listing is an index to feed manufacturers, grouped regionwise and further classified statewise.

A V M CATTLE & POULTRY FEEDS MANUFACTURING INDUSTRIES, 25/689 Rangai Gowder St, Coimbatore 641001, Tamil Nadu; Ph:23683, factory: 26933, Gram: Cattlefood, Tlx: 855-320 AVM IN; Mg Dir: A M A Wahab, Ph off: 26943, resi: 24460. Brand Name:AVM.

ADONI PROTEIN FEEDS, T G L Rd, PB No 28, Adoni 518301, AP; Ph: 545, 546, 547, resi: 606, 665, 666, Gram: Expellers, Tlx: 0816-202 SRPM IN; Mg Partner: T G Lakshminath; Mktg Mgr: N S Setty; Production Mgr: T G Prasad. Branch: Hyderabad. Brand Name: TGL.

AHAR KENDRA, 25 Jail Rd, Raipur 492001,MP; Ph: 27322, Gram: Aharkendra; Partners: Mukesh Mittal, J D Golcha.

AMAR AGENCIES, 119/530-A Darshanpurwa, Kanpur 208012; Ph: 21880, 21926, Gram: Vetfeed; Mg Partner: H S Kalra. Brand Name: Super.

AMI CHAND MAKHANLAL, Sadar Bazar, Gurgaon 122001; Ph: 2536, factory: 2723. Branch: Makhan Lal & Co, L-60 Samalka, Delhi. Brand Name: A-one.

AMIR SINGH ARJAN SINGH, Dhab Wasti Ram, Amritsar; Ph: 44979. Brand Name:Neelam.

AMRITSAR FEED MILLS, Tarn Taran Rd, Amritsar 143401; Ph: 51582 & 41282, Gram: Gulri. Brand Name: Golden.

ANDHRA PRADESH STATE MEAT & POULTRY DEVELOPMENT CORPORATION LIMITED (MAPDEC), Shantinagar, Hyderabad 500028; Ph: 36681, 36856 & 59104; Mg Dir: C Rajal Rao, Ph: 36856; Chief Poul Dev Offr: Dr R Subba Rao, Ph: 36681. Feed Plants: Chittoor, Cuddapah, Gannavaram, Hyderabad, Kadthal, Kakinada, Kurnool, Mahbubnagar, Nellore, Nizamabad, Ongole,Patancheru,Vijayawada,Visakhapatnam,Warangal.

ANIMAL FEEDS DAIRIES & CHEMICALS PVT LTD, Jharapada, Bhubaneswar 751006; Ph: 53246, 54103, Gram: Chakra; Mg Dir: Ranjit Kumar Roy; Exec Dir: Sudhansu Sekhar Das. Brand Name: Chic-Pic.

ANNAPURNA ENTERPRISES, Tikkli Rd, Labbipet, Vijayawada 520010 -- M Govindarajulu

ASHISH FEEDS, Outside Sahara Darwaja, Umarwada, Surat 395003; Ph: 34973; Mg Partner: Minoo K Pooniwala.

AURORA FEED MILLS, 14 Factory Area, Patiala 147001; Ph off: 76952, 76912, resi:76476, Gram: Auroramill; Partner:Jaswant Singh. Brand Name: Sona.

BAAL GOPAL AGRO-VET & CHEMICAL INDUSTRIES PRIVATE LIMITED, 41 New Industrial Estate, Jagatpur, Cuttack 754021; Ph: 20565; Mg Dir: Rahas Behari Mohanty; Adviser: Dr N C Panda, Ph: 52769 ext 54. Regd off: Santa Sahi, Cuttack 753001. Branch: c/o Jaiswal Traders & Chemicals, 39-A Armenian St, Calcutta 700001; Ph: 321666; Business Controller: K N Jaiswal. Brand Name: Gopal.

BALAJI FOODS & FEEDS LIMITED, Factory: Vill Turkayamjal, Post Mangalpally, Hyderabad 501510; Ph: 59537 & 34, 91, 92 (Turkayamjal), Gram: Balfeeds, Tlx: 015-458. Regd off: 4-H Subhodaya Apartments, 4-1-1233 Bogulkunta, Hyderabad 500001; Ph: 237254, 236424; Dir: C Jagapati Rao; Nutritionist: Dr R D Brahmakshetriya. Brand Name: Balaji.

BALLYGUNGE FODDER MILLS (Feed Div), 9 Gurusaday Rd, Calcutta 700019; Ph: 431680 & 444905, Gram: Chunidana; Partners: U C Prasad, T Prasad, R Prasad; Tech Adviser: Dr R Som. Brand Name: Maharaja.

BENGAL FODDER MILLS, 4 Fairlie Place (5th Floor), Calcutta 700001; Ph off: 236504, factory: 675776, resi: 482977, Gram: Emsforg; Prop: G P Kanoria; Nutritionist: Dr Shankar Bhattacharjee. Brand Name: Suraj.

BHANDARI CROSFIELDS LIMITED, Bombay-Agra Rd, Mangligaon 453771, Indore Dist, MP; PB No 143, Indore 452001; Ph: 39382, Gram: Feed, Tlx: 735-251 FEED IN; Mg Dir: R S Bhandari; Chief Exec: Dilip R Bhandari. Regional offices: Ajmer: Sri Krishna Bhawan, Kesharganj; Ph: 20544, Gram: Feed; Calcutta: 30 Tara Tolla Rd, Pahadpur Area, -700088; Godhra: Bhuravav Rd; Ludhiana: Phillaur 144410; New Delhi: 101-A Arjan Nagar, -110029; Gen Mgr: V K Bhagi,Ph:677057.Brand Name:Golden Grain.

BHASKAR BIO-INDUSTRIES, Siddheswar Mahal, Station Rd, Hubli 580020, Karnataka; Ph: 6075, Gram: Feedking; Mg Partner:

See also LATE ADDITIONS at the end of the listing

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Bangalore – 560 039
Phone: 601190/609867
Regd. Office:
283-284, Old Tharagupet
Bangalore-560 053
Phone: 71471/27235

Sanjay Dronawat, Ph resi: 2412.

BRAMHAPPA TAVANAPPANAVAR PVT LTD, Krishna Raja Rd, Manidipet, PB No 7, Davangere 577001, Karnataka; Ph: 3014, Gram: Bramhappa, Tlx: 844-216; Mg Partners: T Nabhiraj, T Subharao. Brand Name: BT.

BRICO ORGANISERS, 99 Sham Singh Rd, Bharat Nagar Chowk, Ludhiana 141001; Ph:22199, 38164, Gram: Brico; Mg Partners: Manohar Lal Vij, Tilak Raj. Brand Name: Brico.

BRIDHICHAND CHIRANJILAL, PO Jugsalai, Jamshedpur 831006; Ph: 25457 & 23216,Gram: Shiwratanco; Partner: Shivratan Bhauka. Brand Name: Shankar.

CENTRAL POULTRY RESEARCH STATION, Poultry Feed Mfg Unit, Gujarat Agril Univ, Anand Campus, Anand, Kheda Dist; Ph: 3431 ext 267, Gram: Agrisearch; Offr Incharge: Dr R K Shukla.

CHANDIGARH FEED MILLS, 159 Industrial Area, Phase II, Chandigarh 160002; Ph factory: 44217, Gram: Chandimill; Partner: Naginder Singh Tarkhan, Ph resi: 44788, 28818.

CHANDRA FEEDS, Tilakwadi Colony, Belgaum 590167 -- T N Bhat

CHETANA FEEDS, c/o Dharwad Poultry Farm, near Savanur Nawab's Bungalow,Narayanapur, Dharwad 580008; Ph: 80008; Prop: M V Lukkundi.

CHIRANJILAL AGARWAL, "Everest", 46-C Chowringhee Rd, Calcutta 700016; Ph:445106; Chief Exec: Sohanlal Agarwal. Brand Name: Sona.

CORN FEED, Capital Cinema Bldg, 2nd floor, Rear Side, Waudby Rd, Fort, Bombay 400001; Ph: 266335, 260880, Gram: Roofteel; Chief Exec: Smt Premlata G Nayak; Sales Mgr: B K Shetty. Factory: Vill Jeoli, Badlapur, Maharashtra.

COROMANDEL AGRO PRODUCTS & OILS LTD, Anim Feeds Div, PB No 34, Jandrapeta, Chirala 523155, Nellore Dist, AP; Ph: 552, 695, Gram: Capol, Tlx: 471-261. Brand Name: Capol.

CROWN FEED MILLS (Zulfe Bengal Works), 487 G T Rd, Shahdara, Delhi 110032; Ph: 200004; Prop: R C Mahajan.

DASUYA COOPERATIVE POULTRY SOCIETY LTD, Dasuya 144205, Hoshiarpur Dist, Pb.

DELHI CONSUMER'S COOPERATIVE WHOLESALE STORE LTD, Karampura Rd, Moti Nagar, New Delhi 110015; Ph: 502970 & 501849; Gen Mgr: R S Tyagi; Administrator: Bansi Dhar; Tech Expert: Dr Lachman Singh. Brand Name: Coops.

DELUX FEED PRODUCTS (P) LTD, 46 Eastern Chambers, Poona St, Bombay 400009; Ph: 866653, 864489, Gram: Poltryfood; Mg Dir: V P Chibber. Branches -- Assam: Ulu Bari, Guwahati 781007; Ph: 5877; Gujarat: Sardar Market, Poona Kumaria Bldg, Surat 395001; Ph: 24640.

DEVI TRADERS, 178 Salem Rd, Namakkal 637001, Salem Dist, Tamil Nadu; Ph off: 2615, factory: 2850; Partners: Shanmuga Sundaram, Srinivasan.

DHANPAT MAL JAWALA DASS FEED MILLS (Prop: Nandi Provender Mills), 33 Shivaji Marg, New Delhi 110015; Ph: 531077, Gram: Jawalabhog; Mg Partner: Vineet Virmani, Ph off: 531372, resi: 619209; Mgr: S P Kalia.

DHARWAD POULTRY FARM, Near Savanur Nawab's Bldg, Narayanpur, Dharwad 580008; Ph: 80008; Mg Partner: Prabhakar Sirsikar. Brand Name: Chetana.

DHEERAJ INDUSTRIES, 14-8-571 Chudi Bazar, Hyderabad 500012; Ph: 44468, 45289, Gram: Dheerajfeeds. Brand Name: Lion.

DR GHAZI'S PERFECT FEEDS, New Mallapally, Hyderabad 500001; Ph: 36232, factory: 31516, resi: 31416. Branch: Uma Enterprise, J P N Rd, Shadnagar, Warangal.

E I D -- PARRY (INDIA) LTD, Agro Inputs/ Feeds Div, "Dare House", PB No 12, Madras 600001; Ph: 29251, Gram: Distimulo, Tlx: Parry 315; Mgr: A G Kripal Singh; Dep Mgr: P Doraiswamy; Sr Asst Mgrs: S Ananthanarayanan, Dr M R Prabhakar. Agro Inputs Regional Offices -- Andhra Pradesh: Agro Inputs Controlling Off: PB No 1553, 66 Rashtrapathi Rd, Secunderabad 500003; Ph: 70245; Cuddapah, Guntur, Kakinada, Kurnool,Tadepalligudem, Vijayawada, Visakhapatnam, Warangal; Karnataka: Bangalore, Belgaum, Bellary, Mysore; Kerala: Kottayam;Madhya Pradesh: Bhopal; Orissa: Bhubaneswar; Tamil Nadu: Cuddalore, Erode, Madras, Madurai, Ootacamund, Trichy;West Bengal: Calcutta. Brand Name: Parry's.

EGG FOODS, 12-2-825/7 Mehdipatnam, Hyderabad 500028 -- M Raj Kumar Prasad.

EGGMORE FEEDS, Amaravathi Rd, Estate Post, Guntur 522034, AP; Ph off: 20227, factory: 23322; Mg Partner: L Krishnarao, Ph: 23107 (resi); Mgr: P Hara Gopal; Acctt: B Subba Rao. Brand Name: EMF.

ESSEN FEEDS, Plot No 3, 1st Cross Rd, Auto Nagar, Vijayawada 520007; Ph: 52814, Gram: Essen Feeds; Mg Partner: T Nageswara Rao, Ph off: 63201, factory: 52814, resi: 74110. Brand Name: Essen.

FARMERS FEED CORPORATION, Tarn Taran Rd, Amritsar; Ph: 31255; Prop: Krishan Kumar. Brand Name: Fafco.

FEED DISTRIBUTORS, L Manohar Lal Bldg, Ram Nagar, New Delhi 110055; Ph off: 256133,

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resi: 516123; Prop: Jagdish Goel; Factory: Chattarpur, Mehrauli, New Delhi.

FEED TRADERS, Vill Chattarpur, Mehrauli, New Delhi 110030; Bipin Kapur.

FEEDS INDIA, 115B/3 Paramathi Rd, PB No 9, Namakkal 637012, Tamil Nadu; Ph: 2330, Gram: Feeds; Mg Partner: M K Ponnusamy, Ph resi: 2130. Works: A-1 Sidco Industrial Estate, Namakkal 637012.

FOOD FATS & FERTILIZERS LTD, Fountain Plaza, 7th floor, Pantheon Rd, Egmore, PB No 759, Madras 600008; Ph: 82121 (5 lines), Gram: Foodfert, Tlx: 041-509; Dirs: B K Goenka, S B Goenka, G S Goenka. Factory: Tanuku Rd, PB 15, Tadepalligudem, AP; Ph: 2571 (3 lines), Gram: Branoil. Regional offices -- Bombay: Green House, Green St; Ph: 319836, 292788; Calcutta: 4 Synagogue St (7th floor); Ph: 275165; Hyderabad: 3-5-874/7 & B, IInd floor, Hyderguda; Ph: 37548; Kakinada: 43/3/4, Upstairs, Market St; Ph: 3506. Brand Name:Pushti.

FOODS & FEEDS, New Shantinagar, Raipur 492001 -- Smt Nirmala Verma

FRIENDS FEEDS, Kumar Mandi, Ludhiana; Ph: 27713; Mg Partner: Rakesh Kapur, Ph: 27153 (resi).

GANESH PROVENDER MILLS (Prop: S P Virmani & Son (P) Ltd), Jawala Flour Mills, Haripura, Amritsar 143001; Ph: 42653, 43141, Gram: Dhanpat; Jt Mg Dir: V Virmani. Regd off: New Delhi. Brand Name: Nandi.

GODREJ SOAPS PVT LTD, Animal Feeds Div, Pirojshanagar, Eastern Express Highway, Vikhroli, Bombay 400079; Ph: 584461, 586861, factory: 586331, Gram: Soapgodrej, Tlx: 011-71480; Dir: Nadir B Godrej; Gen Mgr (AF Mktg): N C Gawankar; Asst Mktg Mgrs (AF): Dr S L Anaokar, J Y Gupte; Nutritionist: Dr G F Mithuji. Branches -- Khanna: c/o Aesthetic Exports Pvt Ltd, Animal Feed Plant Site, C-41-46 Focal Point,Khanna, Dist Ludhiana; Mktg & Nutrition Exec: R S Vijan; Madras: Plot No 1-B, Industrial Estate, Ambattur, -600098; Factory Mgr: Dr T V Krishna Reddy; Branch Mgr (AF South): Dr E N Rao; Miraj:Plot No B-2, MIDC Industrial Area, -416410; Factory Mgr: C K Vaidya; Tirunelveli: 8 Sivalaperi Rd, Palayamkottai, Tirunelveli, Madras 627002; Factory Mgr: K S Narayanan; Sachin: Plot No 247/1, GIDC Industrial Estate, -394230, Dist Surat; Factory Mgr: H N Patel. Brand Name: Godrej.

GOVERNMENT OF ANDAMAN & NICOBAR, Directorate of Animal Husbandry & Veterinary Services -- Feed Mixing Unit: Dollygunj Farm Complex, Dollygunj, Port Blair.

GOVERNMENT OF ARUNACHAL PRADESH, Directorate of AH & Vet -- Feed Mixing Plant, Composite Livestock Farm, Nirjuli, Suabansiri Dist; Incharge, Dist AH & Vet Offr: Dr D Bharali.

GOVERNMENT OF ASSAM, AH & Vet Dept -- Poultry Feed Mixing Centres -- Central Feed Mill, Khanapara, Guwahati 781022; Ph: 87370; Offr Incharge: Dr D Baruah; Intensive Poultry Development Projects - Baghchung, Jorhat: Proj Offr: Dr B C Saikia; Dibrugarh: Ph: 240; Dr N Islam; Ghungoor, Silchar, Cachar: Dr S M Das; Kokrajhar, Goalpara: Vacant; Lakhimpur: Ph: 30; Dr K K Nath; Tezpur: Ph: 372; Dr R R Hazarika.

GOVERNMENT OF GOA, Daman & Diu, Office of the Director of AH & Vet Services -- Govt Feed Factory, Curti-Ponda.

GOVERNMENT OF GUJARAT, Directorate of AH -- Poultry Feed Mixing Centres -- Junagadh: IPD Block; Ph: 746; Surat: IPD Block, Athwa Lines.

GOVERNMENT OF KARNATAKA, Dept of AH & Vet Services -- Poutry Feed Mixing Centres: Aland, Bagalkot, Bangalore (Hessarghatta), Gangavathi, Gundlupet, Haveri, Hiriyur, Kolar, Malavalli.

GOVERNMENT OF KERALA, Central Hatchery, Chenganmur 689122, Alleppey Dist; Ph: 277; Production Mgr: Dr K O Oommen.

GOVERNMENT OF MADHYA PRADESH, Directorate of Veterinary Services -- Poultry Feed Mixing Units -- Offr Incharge, Intensive Poultry Development Projects: Bhopal: Dr M B Jadhav; Gwalior: Dr U C Shukla; Indore: Dr W B Pandey; Jabalpur: Dr B C Kotole; Raipur: Dr P R Untawale.

GOVERNMENT OF MEGHALAYA, Directorate of AH & Vet Services -- Zonal Feed Mills -- East Garo Hills: Tura; East Khasi Hills: Bhoi, PO Nayabunglow; Kyrdemkulai: Regl Poul Breeding Farm.

GOVERNMENT OF NAGALAND, Directorate of AH & Vet -- Feed Compounding Centre, Dimapur; Offr Incharge: Dr K A Wahid; Feed Mixing Plant, Mokokchung; Offr Incharge: Dr T Tajen.

GOVERNMENT OF ORISSA, Directorate of AH & Vet Services -- Feed Mixing Centres: Angul 759122; Balasore; Bhanjanagar; Koraput; Sundergarh.

GOVERNMENT OF PONDICHERRY, Directorate of AH, Feed Mixing Plant: State Poultry Farm, Kariamanickam; Ph: 33.

GOVERNMENT OF TRIPURA, Directorate of AH, Poultry Feed Mixing Centre: State Poultry Farm, PO Gandhigram, Agartala

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9-B, Uddham Singh Nagar,
Civil Lines, Ludhiana-141 001
Phone: 35422

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V & P.O. Balana, 7th km.
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Gram: SWASTIK AMBALACITY

799001, Tripura West; Ph: 3773; Mgr (Feed Mix Unit): Dr Pulak Bandhupadhyaya.

GOVERNMENT OF UTTAR PRADESH, AH Dept — Feed Mixing Centres — Gorakhpur:Kusht Ashram;Ph:5240;Asst Proj Offr (Poul): Dr L P Srivastava; Hapur (Ghaziabad): Station Rd; Sr Poul Specialist: Dr N P S Verma; Lucknow: Gokaran Nath Rd, Badshahbagh; Ph: 42188; Proj Offr (Poul): Dr G N Bhatt.

GULRI & CO, Chowk Moni, Gulri Market, Amritsar 143001; Ph: 41282, Gram: Gulri; Gen Mgr: Gursharan Singh Gulri.

GULRI FEED SUPPLIERS, 4 Malviya Rd,Laxman Chowk, Dehra Dun 248001; Ph: 25907; Mg Partner:R P S Gulri.Brand Name:Golden.

HAFED CATTLE FEED PLANT, Near Sukhpura, Rohtak 124001, Haryana; Ph: 4709,Gram: Pashuchara; Gen Mgr: R L Sethi;Quality Control & Nutrition Offr: B S Chaudhary; Liaison Offr,New Delhi:V Mittal.

HAJI MOHAMED HUSAIN ENTERPRISES, Mandi Mir Alam, Hyderabad 500002; Ph: 521850, 524764 (HO), 43988 (BO), Gram: Proteinfish; Mg Partner: Mohd Yousuf (Iqbal Pasha). Brand Name: Kwality.

HARYANA AGRO CATTLE FEED PLANT (A unit of Haryana Agro-Industries Corpn Ltd), Near Rly Junction, Jind 126102; Ph: 2259, Gram: Haramrit; Dep Gen Mgr : S N Tyagi, Ph resi: 2466; Asst Engr: J K Verma; Sales Offr: J P Goel. Brand Name: Haramrit.

HARYANA STATE COOPERATIVE SUPPLY & MARKETING FEDERATION LTD, THE, SCO 19, Sector 7-C, Madhya Marg, Chandigarh 160019; Ph: 21731-34, Gram: Hafed, Tlx: 274; Mg Dir: Sunil Ahuja, IAS, Ph: 26697; Gen Mgr: R L Sethi; Quality Control & Nutrition: B S Chaudhry. Hafed Cattle Feed Plant: Near Sukhpura, Rohtak; Ph: 4709, Gram: Pashuchara. Brand Name: Hafed.

HIMACHAL PRADESH AGRO-INDUSTRIES CORPORATION LIMITED, Salig Ram Bhawan, Khalini, Shimla 171002; Ph: 2663, 3621, 5076, 5937, 2347, 5918, Gram: Himagro;Mg Dir: P S Negi, IAS, Ph: 2663; Exec Offr: R S Jishtu, Ph: 3621; Mktg Mgr: B R Jamwal, Ph: 5076. Feed Plants — (i) Cattle & Poultry Feed Plant, Parwanoo, Dist Solan; Production Mgr: Dr T K Ghosh, Ph: 219; (ii) Cattle & Poultry Feed Plant, Jachh, PO Jassour, Teh Nurpur; Production Mgr: Dr K C Sood, Ph: 121 (Nurpur).

HIND ANIMAL FEED INDUSTRIES, Near General Bus Stand, Dhuri, Sangrur Dist, Punjab; Ph: 262; Partners:Surinder Kumar Bansal & Subhas Bansal. Brand Name: Superb.

HINDUSTAN FEED PRODUCTS, Opp Sewri Rly Station (East), Bombay 400015; Ph: 8820025, Gram: Goldfish; Partners: Sitaram S Dhanu & Aziz G Merchant. Brand Name: Hindustan.

HULKOTI COOPERATIVE CATTLE FEED PROCESSING SOCIETY LIMITED, Hulkoti, Dharwar Dist, Karnataka; Ph: 284 (Gadag); Mktg Offr: R H Gaddigouder. Regional offices — Hubli: Anchatageri Lane; Madgao-Goa: 3 Gomant Vidyaniketan; Pune: 1102/B Shivaji Nagar. Brand Name: Krishna.

HY-FED POULTRY & CATTLE FEEDS, 902 Paigah Plaza, 5-9-30/5 Bashirbagh, Hyderabad 500029; Ph: 223551-2, Gram: Hyfed, Tlx: 0155-6489 HFED IN; Partners: Shaik Imam, Muneeruddin S Imam, Allauddin S Imam. Factory: 7th Milestone, National Highway 9, Hyderabad 500035; Ph: 559536.

HY-PRO POULTRY & CATTLE FEEDS, 1-77/4 Lingojiguda, Saroornagar, Hyderabad 500035; Ph: 59334, 59357; Partners: Mahmood Ali Suraus, Kamaluddin Rajaus.

I A F Co, 82 Focal Point, Ludhiana; Ph: 25608; Prop: Dr N S Ichhponani. Branch: Chopra Feed Stores, Central Town, opp Shivaji Park, Jalandhar City; Ph:76248.

IDEAL FEEDS, 5 Mehrauli Rd, opp State Bank of India, Gurgaon 122001; Ph: 3731,3594 (resi); Partners: Dr J K Puranik, M S Saluja; Adviser: Dr J S Ichhponani. Branch: 125-126 Ashapuri, Behind Aggranagar, Ludhiana; Ph: 25608; Mgr: Dr N S Ichhponani. Brand Name: Feedco.

INDIAN COMMERCIAL SYNDICATE, 127 Venkitaswamy Rd (West), R S Puram PO, PB No 1005,Coimbatore 641002;Ph:25255;Partners: N Rajagopalaswamy Naidu, R Natarajan & R Ravichandran. Brand Name:ICS.

INDUSS FEEDS, 238-B, A J C Bose Rd, 3rd floor, Calcutta 700020; Ph: 441962, 432576, 432812, Gram: Vishant, Tlx: 021-4373 VIST IN; Dir: S S Aggarwal, Ph resi: 434059; Gen Mgr:Dr S K Sarkar, Ph: 441962, resi: 460473; Sales Mgr: S K De. Brand Name: Induss.

INTEC (INDIA), A/526, Block I, RIC Industrial Estate, Bow-Hooghly, Calcutta 700035; Ph: 524493, 529087, 542643, 556299. Brand Name: Aurofeed.

J K FEEDS, c/o J K Medical Hall (Veterinary), Gandhi Rd, Karimnagar 505001, AP.

JAI KISAN AGRO PRODUCTS, C-3/4 Sanver Rd, Industrial Estate, Behind Modern Bakeries, Indore 452003; Ph: 35458, 22055, resi: 64111, Gram: Pashuahar; Partner: Ashok Badjatiya. Brand Name: Jaikisan, Jaimin.

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JANTA FEED PRODUCTS, Shivaji Nagar, Factory Area, Sangli 416416; Ph: 2168; Prop: D D Pendse

JAY EM PROVENDER MILLS, 54/1 Nayaganj, Kanpur 208001. Brand Name: Mahadev.

K R V AGENCIES, 3-F Mill Rd, Gobichettipalayam 638476; Ph: 293, 193, resi: 93, Gram: Keyarveet; Partners: G V Viswanathan, G V Krishnamoorthy; Tech Offr: Dr R M Ramasamy. Brand Name:KRV.

KAFCO, Operations Office, M-19, Greater Kailash-II Market, New Delhi 110048; Ph: 6431248, Gram: Keggfarms, Tlx: 031-4590. Corporate off: Eros Apartments, 8th floor, 56 Nehru Place, New Delhi 110019; Ph: 6431642, 6432011; Pres: V S Kapur; Vice-Pres (Operations): D P Khindaria; Gen Mgr (Purchase): Maj Gen Pramod Anand; Chief Nutritionist: Dr A K Chopra. Factory: Daulatabad Rd, Gurgaon 122001,Haryana; Ph: 21546. Brand Name: KAFCO.

KAMADHENU FEEDS, 'Shashikiran', opp Dist Court, Dharwad 580008; Ph: 80075, Gram: Kamadhenu; Mg Partner: M V Lakkundi. Factory: Mummigatti Tq, Dharwad.

KAMSUN TRADERS, 2 Nirankari Market, Bharat Nagar Chowk, Ludhiana 141003; Ph:29677, 33043; Partners: Romesh Garg, Sham Sunder.

KAPSONS ENTERPRISES (LIVESTOCK FEEDS), B-12/13 Industrial Estate, Kashipur 244713, Dist Nainital, UP; Ph: 82; Prop: Prem Kapoor.

KAPUR ENTERPRISES, 10-A Rampura Marg, Industrial Area, New Delhi 110035; Ph: 7125959; Prop: N C Kapur.

KAPUR FEEDS, 579 Shivaji Marg, Najafgarh, New Delhi 110043; Ph: 806453; Prop: Kamal Kapur; Gen Mgr: N C Kapur.

KAPUR FEEDS, Chhatarpur, New Delhi 110030; Ph: 653493.

KARNATAKA STATE AGRO CORN PRODUCTS LTD, Agro Feeds Div, Bellary Rd, Hebbal, PB 2479, Bangalore 560024; Ph: 365281 (3 lines), Gram: Agrocorn; Mg Dir: K C Balasubramanian; Exec (Feeds): Dr M S Parthasarathy. Regional offices — Belgaum: Dharwar Rd; Ph: 20705, Gram: Agrocorn; Mysore: 869/A Vanivilas Rd, Siddappa Square, -570004; Ph: 23632, Gram: Agrocorn. Brand Name: Agrofeeds.

KAVERI FEEDS, 14 Paramathi Rd, Namakkal 637012, Tamil Nadu; Ph: 2828; Mg Partner: P Veerappan, Ph: 2028.

KERALA SOLVENT EXTRACTIONS LTD, Solvent Rd, PB No 20, Irinjalakuda 680121, Kerala; Ph: 2451-2453, Gram: Solvent, Tlx: 0887-217; Mg Dir: K L Francis; Exec Dir: M C Paul; Gen Mgr: S K Menon; Works Mgr: Anand Menon; Nutritionist: Dr Jose D Pathadan.

KERALA TRADING CORPORATION, PB No 54, Virudhunagar 626601, Tamil Nadu; Ph off: 3061, resi: 3024, Gram: Cow; Sr Execs: T K S P Arunachalam, T K S P Nagarajan, Dr T K Shunmugam. Brand Name: KTC.

KHANEJA FEED STORES, 298/1 Vill Gadaipur, Mehrauli, New Delhi 110030; Ph: 652515.

KOLAY FEEDS COMPOUNDING CO, 2/3 Canal East, Rd, Calcutta 700067; Ph: 354563; Chief Exec: Asish Kolay. Brand Name: Kolay.

KOMARLA FEEDS, Komarla Complex, 53 Old Tharagupet, PB No 7165, Bangalore 560053; Ph: 71305, 24834, Gram: Balkrishna; Partners: P S Nanda Kumar, Komarla Nagaraj; Nutritionist: Dr K Subba Reddy. Factory: Chikkakallasandra, Subramanyapuram Post, Bangalore 560061; Ph: 42076 & 41483. Brand Name: Shanku.

KOSALA ENTERPRISERS, B-4 Industrial Estate, Sambalpur, Orissa; Ph: 1766, Gram:Kosalas; Prop: K M K Murty. Brand Name: Garuda.

KRISHNA ENTERPRISES, Dawda, H N No 8, Taluka Nadiad, Kaira Dist, Gujarat. Brand Name: Swastik.

KRISHNA FLOUR MILLS, 4561 Regharpura, Karol Bagh, New Delhi 110005; Ph: 5726913; Prop: G C Gupta; Works Mgr: Anand P Gupta. Brand Name: Krishna.

KRISHNA SAHAKARI SAKHAR KARKHANA LTD, Feed Mills Div, Rethare Budruk, PO Shivnagar 415108, Tal Karad, Satara Dist; Ph:2306, Gram: Sakhar; Chmn: Jaywantrao K Bhosale; Vice-Chmn: S B More; Mg Dir: V L Tanpure; Nutritionist-cum-Prodn Mgr: Dr R G Gazula. Brand Name: "Krishna Aahar".

KWALITY AGRO-VET INDUSTRIES, 149-150 Duraisamy Nagar, Swaminathapuram 636009, TN.

KWALITY ANIMAL FEEDS, C-1, B-7, Plot No 106, G I D C, Vithal Udyognagar 388121 (via Anand), Gujarat; Ph: 7451, 1959 (resi); I J Chauhan. Brand Name:Kwality.

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L S P FATS & FEEDS, A-2 Block, Industrial Cooperative Estate, Udayapatti, Salem 634014; Ph: 5162, 7683, Gram: Feeds, Tlx: 0450-215; Sr Execs: B S Perumal, B P Purshottaman, B P Udayakumar.

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LIVESTOCK FEED & EQUIPMENT CO, 202 Poonamallee High Rd, Aminjikarai Bridge, Madras 600029; Ph: 422349, 421243, Gram: Lisfec; Prop: D Radhakrishnan.

LUDHIANA FEED MILLS, 611-C Gurdev Nagar, Ludhiana 141002; Ph: 28061 (off), 29497 (resi); Partners: R K Aggarwal, G D Aggarwal. Brand Name: A-One.

M P STATE CO-OPERATIVE MARKETING FEDERATION LTD, Cattle Feed Factory, Dhamdha Rd, Durg 491001, MP; Ph: 2767, 2076, 3185, Gram: Kisanfeed, Tlx: 771-212 APEX IN; Gen Mgr: C M Mathur, Ph resi: 2801; Chief Sales Exec: J P Sharma, Ph: 2767; Sales Offrs -- Bilaspur: F A Khan, c/o Dist Mktg Offr, M P State Co-op Mktg Fed Ltd; Ph: 3309; Durg: S K Vasnekar, c/o Cattle Feed Factory, Dhamdha Rd; Ph: 2767; Jabalpur: L K Soni, Patrakar Bhavan, Baldeobagh; Ph: 20775; Raipur: V K Singhai, 51 New Bombay Market; Ph: 27725; Satna: S K Shrivastava, c/o Dist Mktg Offr, M P State Co-op Mktg Fed Ltd. Brand Name: Taraju.

MADHU PULVERIZERS, Opp Vet Hospital, HRG Circle, Bellary 583101; Ph: 2495, 3632; Mgr: R Abdul Majid. Brand Name: Bird.

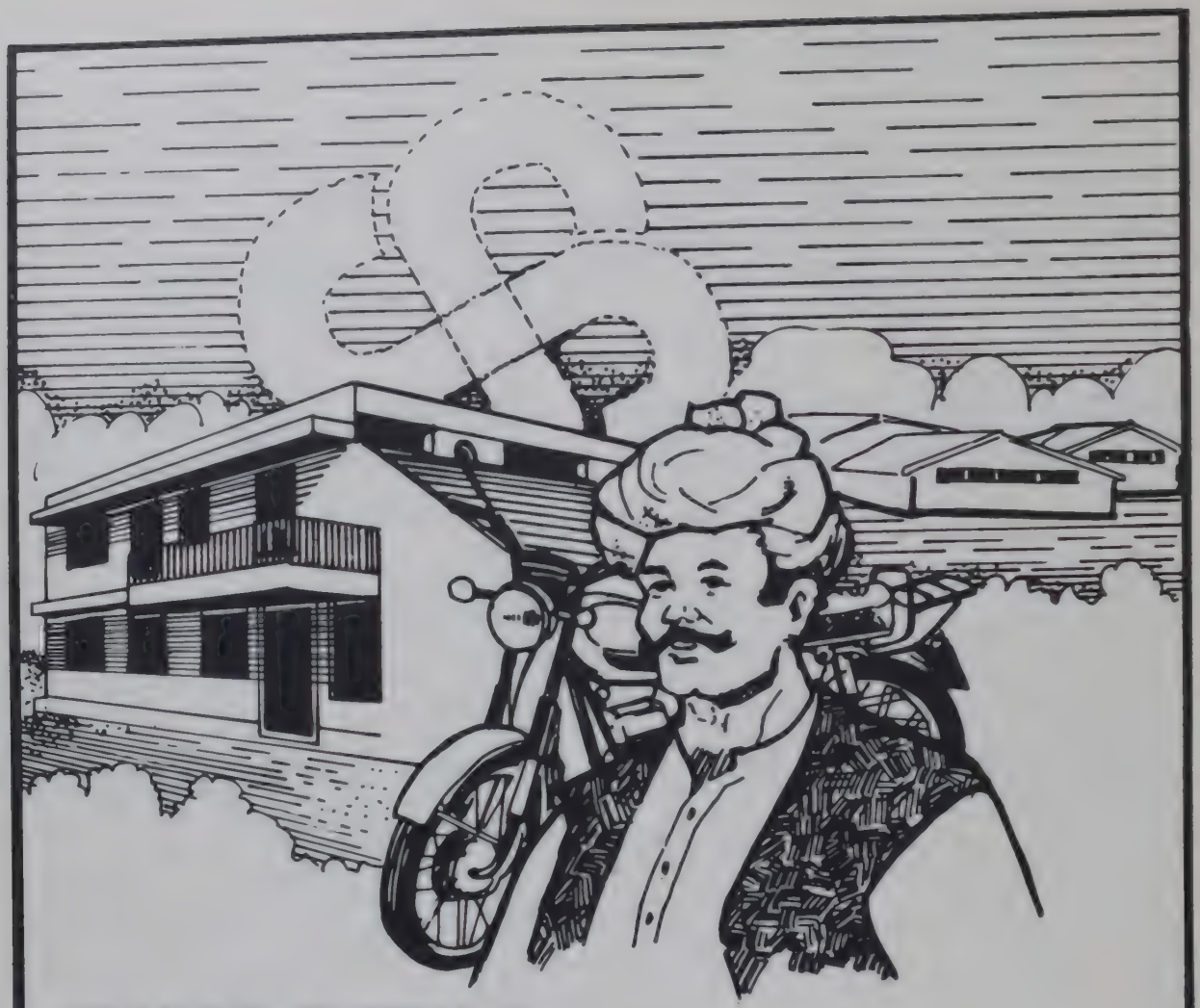
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MAHALAXMI FEED & FERTILIZERS, 107 Bhawani Peth, Gul Ali, Pune 411002; Ph: 27569. Factory: Vadgaon Mawal, Bombay-Pune Rd, Dist Pune; Ph: 408/304.

MAHALAXMI FEED MIXING CO, 11-49-161 Sivalayam St, Vijayawada 520001; Ph: 72562, Gram: Feedmixco; K G Krishna.

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MAHESHWARA INDUSTRIES, D-11 Industrial Estate, Warangal 506007; Ph: 4829; Adviser: Dr B Anandam; Mgr: P B Rao.

MALAV FEEDS & FERTILIZERS, 337 Shivaji Nagar, Indore 452003; Ph: 4466, Gram: Malavfeed; Mg Partner: Ravindra Bafna. Brand Name: Kukkut.

MANAS PRODUCTS (PROTEIN) PVT LTD, Uzan Bazaar, F C Rd, Guwahati 781001;Ph:27970, Gram:Manashouse;Dirs:A K Choudhury, D K Choudhury,R K Choudhury,J K Choudhury.

MARKFED FEED MIXING PLANT (A unit of AP State Coop Mktg Fed Ltd), 30/109 Vijaya Nagar, Nandyal 518501, AP; Ph: 640, Gram: Feeds. Brand Name: MARKFED.

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MODERN POULTRY FEEDS, Gandevi 396340, Bulsar Dist, Gujarat; Ph: 306; Mg Partner: Dr I M Desai. Regional off: Deepak Trading Co, Bombay; Ph: 486342. Brand Name: Modern.

MOD FEED PRODUCTS, 40-41 Vill Chattarpur, Mehrauli, New Delhi 110030; Ph: 667292 (factory); Prop: Baldev Raj Juneja, Ph resi: 663868.

MODERN FEED MILLS, 89 Vill & PO Chattarpur, Mehrauli, New Delhi 110030; Ph factory: 667292, 664992, resi: 663868, 653436; Prop: Amar Nath Juneja. Brand Name: Mod Feeds.

MOHAMED RAFIQ ABDUL SATTAR, Khoja Galli, Versova, Bombay 400061; Ph: 447192, Gram: Khastkuwar; Mohamed Rafiq, Anwar Hussain, V V Khole.

MORISSON FEED MILL, 34 Singarapettai St, Shevapet, Salem 636002; Prop: M Venkatesan. Brand Name: MFM.

MYSORE FEEDS PVT LTD, 283 Old Tharagupet, PB 7884, Bangalore 560053; Ph: 71471, Gram: Myfeeds, Tlx: 356; Tech Dir: M K Dattaraj; Dirs: A Venkataramana Setty, M K Panduranga Setty, M K Ramachandra, A V S Murthy. Factory: Nayandahally, Mysore Rd, Bangalore 560039; Ph: 601190. Brand Name: Basket.

NADIA FEED & FODDER MILLS (PVT) LIMITED, 11 Lalit Mitra Lane, Calcutta 700004; Ph: 555896, Gram: Nadiafeed; Head Off & Factory: PO Shibnarayanpur, Vill Barhata, Rly Station Aranghata (Nadia); Ph: 36 (Aranghata). Brand Name: Nadia.

NANDI PROVENDER MILLS, 33 Shivaji Marg, New Delhi 110015; Ph: 531077, Gram: Jawalabhog; Jt Mg Dir: Vineet Virmani, Ph: 531372 & 531985; Mgr: S P Kalia. Brand Name: Nandi.

NATIONAL AGRO-PRODUCTS, Nursery Rd, Mahadevnagar, Bilimora 396321, Valsad Dist; Ph: 2621; Mg Partner: N N Mistry

NAV MAHARASHTRA CHAKAN OIL MILLS, 42/43 Shankar Sheth Rd, Pune 411037; Ph: 66406-8, resi: 63509, Gram: Shenga, Tlx: 0145-349; Partner: Pravin S Lunkad. Branch: Plot No A-12, MIDC, Ahmednagar; Ph: 55.

NEW DELHI FEED MILLS, 90 Chattarpur, New Delhi 110030; Ph off: 651535, 669079; Mg Partner: Ramesh Chander.

NOORSONS, 22 Sewri Cross Rd, Bombay 400015; Ph: 583003, 8825144, 377332, Gram: Janfish, Tlx: 011-76051 NOOR IN; Mg Partners: K N Banatwalla & A Q Banatwalla. Plant: Crescent Industrial Estate, Kanjur Vill, Bombay 400078. Brand Name:Jan.

NORTH STAR AGRO INDUSTRIES PVT LTD, 407 Lakshmi Bhawan, 72 Nehru Place, New Delhi 110019; Ph: 6413130, Gram: Norstar, Tlx: 31-3969 NSM IN; Dir: Ravi Sikund; Mgr: Brij Sonak. Factory:B-109, Sector 5, Noida, UP. Branch: 79 Indl Area, Phase I, Chandigarh 160002.

OJO FEEDS CO, B-8 Assisted Industrial Estate, Renigunta Rd, Tirupati 517506, AP; Ph: 376 & 2084, Gram: Ojo; Mg Partner: M V Butchi. Brand Name: Ojo.

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PATNA POULTRY FARMERS COOPERATIVE SOCIETY, PO Anisabad 800002, Patna.

PAUSHTIK FOODS & FEEDS, RH-1, C-18 Sector 8, Vashi, New Bombay 400703; Ph: 8390 (Vashi), Gram: Milkmore, Thane.

PRAGATHI POULTRY FEEDS, PO Hayatnagar, Ranga Reddy Dist — P Shravan Kumar Reddy.

PRAKASH ENTERPRISES, Mankammathata, Karimnagar 505002, AP; Ph: 2633; Prop: M Baghyalaxmi.

PRAVEEN FEED INSUTRRIES, 180 East Nivargunj (Bara Dari), Jabalpur 482002; N K Jain.

PREM FEED STORE, Railway Rd, Patti (Amritsar); Ph: 93. Brand Name: Eggo Concentrate.

PREMIER ALFA MEAL INDUSTRIES, 41 Grey Town, Coimbatore 641018, Tamil Nadu.

PRESTIGE FEED MILLS PVT LTD, 30 Jaora Compound, M Y H Rd, Indore 452001, MP; Ph: 4633, 21725, 3401, Gram: Prestige, Tlx: 0735-205 PEM IN; Chmn: N N Jain; Mg Dir & Export Exec: Davish Jain; Chief Mktg Exec: S K Jain. Brand Name: Prestige.

PRESTIGE FEEDS, 8/8 Kilometer Stone, Nagarjuna Sagar Rd, Bhyramalguda, Hyderabad 500963; Ph: 559407, Gram: Prestige; Mg Partner: R C Chadha, Ph resi: 226135. Brand Name: Prestige.

PUNJAB FEEDS, Vill & PO Jandiali, Chandigarh Rd, Ludhiana; Partner: M C Aggarwal, Ph: 27402 (resi). Brand Name: Unique.

PUNJAB POULTRY & FEEDS, PB No 3, Handiaya Rd, Barnala 148101, Sangrur Dist; Ph off: 370, resi: 460; Rakesh Kumar.

PUNJAB POULTRY DEVELOPMENT CORPORATION LTD, THE, Kothi No 517, Sector 33-B, Chandigarh 160031; Ph: 20698, 28491, Gram: Poltrycorp; Mg Dir: M Lal Manzula, IAS; Gen Mgr: Dr G S Chahal; Sales & Mktg Mgr: Gamdoor Singh Sandhu. Feed Processing Centres -- Chandigarh: Industrial Area; Ph: 25721; Gurdaspur: Govt Poultry Farm; Jalandhar: Govt Poultry Farm, Ladowali Rd; Ludhiana: Zila Parishad Bldg; Patiala: Dukh Niwaran Rd; Ph: 2986. Brand Name: PPC.

PUNJAB POULTRY FEEDS, Chowk Moni, Amritsar 143001; Ph off: 46167, resi: 48317, 33291. Brand Name: PPF.

RADHA AGRC INDUSTRIES (P) LTD, 69 Bagh Diwar, Fatehpuri, Delhi 110006; Ph: 2512230, 2512240; Mg Dir: Ashok Kumar Aggarwal, Ph resi: 2523888; Tech Dir: J S Gulia; Dir: Sardari Lal Aggarwal. Factory: 3 M I E, Bahadurgarh (Haryana); Ph: 83-501. Branch: Mandi Kesar Ganj, Ludhiana; Ph: 22173, 29775; Resident Dir: Vijay Kumar Aggarwal, Ph resi: 29273. Brand Name: Radha.

RAICHUR OIL COMPLEX (A unit of K S C M F Ltd), PB No 51, Raichur 584102, Karnataka; Ph: 8072, Gram: Oil Complex, Tlx: 814-240; Sr Execs:A Muniraju,H C Gupta.

RAJ FEED MILLS, Mehrauli Rd, near Govt College, Gurgaon; Ph: 22244; Mgr: Sanjive Gupta.

RAJINDERA FEED MILL, 136-140/52 Industrial Estate, Chandigarh; Ph: 43758.

RAMPRASAD FEED INDUSTRIES, E-20 Industrial Estate, Madanapalle 517325, Chittoor Dist, AP.

RAVI VEGETABLE OIL INDUSTRIES, Hanumanthappa Bldgs, PB No 205, Davangere 577002; Ph: 3236, 3439, Gram: Ravi, Tlx: 0844-233; Mg Partner: R R Sreenivasa Murthy; Factory Mgr: R S Sreenivasa Gupta; Nutritionist: B H Naik.

RISING SUN FEEDS, 83/3 Sait Palya, Lingarajapuram, Bangalore 560084; Prop: S A Khuddus; Chief Exec: Raja J Manuel;Mgr: Abdul Razack. Brand Name: Rising Sun.

REVEIRA FEED CO, Industrial Suburb, II Stage, Visweswaranagara, Mysore 570008; Ph: 24629; Mgr: C Padmanabha Setty

ROMA FEED MANUFACTURING CO, Tarachand Sadan, PO Sevoke Rd, Siliguri 734402, Dist Darjeeling, West Bengal; Ph:22276; Mg Partner: Shyam Sunder Agrawal. Brand Name: Roma.

ROYAL FEED, 18-14-160, Phisal Banda,Roshan Bagh, PO Kanchan Bagh, Hyderabad 500258; Ph: 49048 (factory), 221078 (resi).

RUHSA ANIMAL FEEDS (Rural Unit for Health & Social Affairs), Ruhsa PO 632209, North Arcot Dist, Tamil Nadu; Ph: 51 (K V Kuppam), Gram: Ruhsa, Kilvayattanankuppam; Mgr & Consultant: Lawrence Sebastian. Brand Name: Ruhsa.

RYOTS AGRICULTURAL PRODUCE COOPERATIVE MARKETING SOCIETY LTD, PB No 10, Mandya 571401, Karnataka; Ph: 38, Gram: Ryots; Mg Dir: B M Purushotham Raju. Brand Name: Mandya.

SKM'S ENERGY ANIMAL FEEDS PRIVATE LIMITED, Factory & Regd Off: Chavadipalayam Pudur Rd, Nanjaiuthukuli, Modakkurichi

638104, Periyar Dist, Tamil Nadu; Ph: 2663 (Modakkurichi), 49 & 63 (Nathagoundanpalayam), Gram: Poultry, Tlx: 0856-226 SKM IN; Mg Dir: S K Mylsamy Gounder.
Brand Name: SKM.

S M FEEDS PVT LTD, Animal Feeds Div, 250 Subbiah Mudaliar St, PB No 198, Coimbatore 641001; Ph: 22992, Gram: Fagun, Tlx: 0855-397; Sr Execs: V J Wadhwani, Jairamdas Savaldas.

S P VIRMANI & SON PVT LTD, Prop: Ganesh Provender Mills, Amritsar 143003; Ph: 43141, Gram: Dharpat; Jt Mg Dir: V Virmani. Brand Name: Nandi.

SAKTHI SUGARS LIMITED, 180 Race Course Rd, PB No 3775, Coimbatore 641018; Ph: 25551-6, Gram: Sugarking, Tlx: 0855-333; Mg Dir: Dr N Mahalingam; Mgr (Seeds & Pesticides): K Palaniyappan.

SAMRA POULTRY PRODUCTS PRIVATE LIMITED, Sahnewal, Ludhiana, Punjab; Partners: Malkiat Singh Samra, Amrik Singh Samra.

SAMY FEEDS, 67 Rangar Sumithi St, Namakkal 637001, Tamil Nadu -- S Karuppaiah.

SAPTAGIRI POULTRY FEEDS, Etukur PO, near Bypass Rd, Guntur, AP; Ph factory: 25076; resi: 21025; Mg Partner: T Appa Rao.

SENTHIL POULTRY FARM, Vennandur PO, Salem Dist, Tamil Nadu; Ph: 27 (Attaryampetti). Brand Name: Sree Sakthi.

SHAH CHEMICAL & FERTILISER PVT LTD, 1875 Dhan Nivas, Atabhi Avenue, Krishnanagar, Bhavnagar 364002; Ph off:24579, factory: 24578, Gram: Cattlefeed; Mg Dir: Jayendra Shah. Brand Name: Shah.

SHAKTI LIVESTOCK FEEDS (P) LTD, 152 Hapur Rd, Meerut 250002, UP; Ph: 77070 & 74472, Gram: Shakti; Mg Dir: S G Sethi. Brand Name: Shakti.

SHETKARI SAHAKARI SAKHAR KARKHANA LTD, Cattle Feed Div, PO & Rly Station Sangli 416416; Ph: 2611-20, Gram: Sakhar, Tlx: 019-3232; Mg Dir: U J Phalke; Mgr, CFD: A D Patil. Brand Name: Khurak.

SHREE WARNA KOMBADI SAHAKARI SANGH LTD, Warnanagar 416113, Kolhapur Dist, Maharashtra; Ph: 2246 (Kolhapur); Chmn: V R Joshi; Mgr: Dr Kilinge.

SHUNMUGAMOHAN TRADING COMPANY, PB No 43, Virudhunagar 626001; Ph off: 3061, resi: 4113, Gram: Yesteecee.

SIFI FEEDS, Southern India Food Industries, N H Palya PO, Manathavady Rd, Mysore 570008; Ph: 21230, Gram: Thermotek; Mg Partner: V Eapen, Ph resi: 21277. Brand Name: SIFI.

SINGH POULTRY PRIVATE LIMITED, Feeds Div, 2nd Floor, Unity House, Abid Rd, PB No 103, Hyderabad 500001; Ph: 34253,35954, Gram: Singpoltry, Tlx: 0155-6991 SUKH IN; Mg Dir: Harbans Singh; Dir, Feeds: O P Khurana.

SOHAN LAL & SONS (REGD), 386 Chattarpur Vill, Mehrauli, New Delhi 110030; Ph resi: 777277, 779277; Partners: Kashmere Lal, Jugal Kishore. Brand Name: Super.

SREE GAJANANA RICE & OIL MILLS LTD, Ediga Ext, Mysore 570015; Ph: 23713, Gram: Sagarmills; Chief Exec: R N Pratap. Brand Name: Gay Bird.

SRI RAJKAMAL ANIMAL FEEDS MANUFACTURERS, 3-3-34/2 Narasingaraopeta, Anakapalle, Visakhapatnam Dist, AP; Ph off: 870, fac: 800; Prop: Ms K B A V Lakshmi Devi.

STANDARD FEEDS, 6 Industrial Estate, Gangyal, Jammu 180010; Mg Partner: Dr M A Malik.

SUDARSHAN FEEDS, 9150 Sha Damji Bldg, Neeligin Rd, Hubli 580029; Ph: 65401, 65623 (resi), Gram: Cagefeeds; Mg Partner: Dr C G Ponappa; Partners: Dr M N Kulkarni, A C Hakkapakki. Factory: "Jagdish Baug", Navanagar PO, Hubli-Dharwad Rd, Hubli 580025; Ph: 65304.

SUNDER FEEDS, 24 Industrial Estate, Gangyal, Jammu 180010; Mg Partner: S S Bhatnagar

SUNFARM FEEDS (A Div of Modern Mills Ltd), Karwar Rd, Hubli 580024, Karnataka; Ph: 63922, 62395, 62397, Gram: Sundatta, Tlx: 0865-221; Gen Mgr:A Venkateswaran; Mktg Mgr: T S Mani. Regd Off: 29/101 K Khadye Marg, Mahalaxmi, Bombay 400011. Brand Name: Sunchick.

SUPER FEEDS & CHEMICALS, Chumar Mandi, Ludhiana; Partner: Rakesh Kapur.

SUPER FOODS & FEEDS, M Allaoddin Bldgs, Champapet, Sagar Rd, Hyderabad 500659; Ph: 44505; Khaja Moinuddin.

SUPREME ANIMAL FEEDS, Kotra, Pushkar Rd, PB 31, Ajmer 305001; Ph: 2066, Gram: Supreme. Brand Name: Supreme.

SURAT DISTRICT CO-OPERATIVE MILK PRODUCERS' UNION LIMITED, PB No 501, Surat 395008; Ph: 27691-95, Gram: Sumul, Tlx: 0178-208; Mg Dir: Dr T D Patel. Factory: Sumuldan, PO Chalthan 394305, Dist Surat; Ph: 162, 163; Mgr: R B Patel. Brand Name: Sumuldan.

SURESH FEED PRODUCTS, 15-2-307 Kishan Ganj 1st Floor, Hyderabad 500012; Ph: 50297, 44711, Gram: Laymore. Factory: Injapur, Hyderabad East. Brand Name: Laymore.

SUSHIL FEEDS, PO Madhi 394340, Surat Dist,

Gujarat; Ph: 16, 90; Mg Partner: Nathubhai Patel.

SWASTIK FEEDS, Hissar Rd, 7th Km, Vill & PO Balana, Dist Ambala; Mgr, Mktg: Rajesh Jain; Mgr, Production & Admn: Lalit Jain; Tech Sales Exec: Dr K M Srivastava; Nutritionist: Dr Ajay Rishi. Brand Name: Prestige.

SWASTIK TRADERS, Mangal Parao, Bareilly Rd, Haldwani 263139; Ph: 211. Brand Name: Sumeet

TALWALKAR FEEDS, 3 Ramacha Got, Satara 415002, Maharashtra; Ph: 2068; Prop: Mrs Arundhati Talwalkar. Brand Name: Sahkti.

TAMIL NADU POULTRY DEVELOPMENT CORPORATION LIMITED (TAPCO), 561 Anna Salai, Madras 600018; Ph: 453164, Gram:Kozhiyinam; Mg Dir: K Allaudin, IAS, Ph: 450560; Sr Mgr (Tech): Dr S Arumugaham; Sr Mgr (Finance): Thirunavukkarasu; Sr Mgr (Mktg): Vacant; Dep Sr Mgr (Tech): Dr B Gopal Koushik; Dep Sr Mgr (Mktg): Vacant. Feed Mixing Units: Kappalur, Madurai Dist; Dep Mgr: Dr C Padmanabhan, Ph: 8197; Nandanam, Madras; Dep Mgr: Dr S Kuppuswamy, Ph: 451326; Tirupur, Coimbatore Dist; Dep Mgr: S Sivakumar, Ph: 23058. Brand Name: Tapco.

TARAKA FEEDS, 6/10/23 A Pet, Guntur 522002; Ph: 22610; Partners: Seetarama Rao & Laxminarayana. Factory: B4 Industrial Estate, Avti Rd, Guntur 522002; Ph: 23233.

TATA OIL MILLS COMPANY LIMITED, THE, Animal Feeds Div, Bombay House, 24 Homi Mody St, Fort, Bombay 400023; Ph: 2049131-508, Gram: Tatoils, Tlx: 11-2618, 11-2731; Mgr, Animal Feeds: Dr N Satapathy, Ph resi: 4929663; Exec: B S A Swamy. Regional Offices — EAST ZONE: c/o Animal Feeds Dairies & Chemicals (P) Ltd, Jharapada, Bhubaneswar 751006, Orissa; Ph: 53246, 54104;Offr Incharge: Dr D C Das; Sales Rep: P K Suar. NORTH ZONE: Zonal Mgr: Dr S S Chabbra, A-17 Nirman Vihar, Delhi 110092; Ph: 242646; Sales Reps: Dr Kochar, Dr A K Atkare, Dr Saxena; Ambala: c/o Sardar Bhagat Jaswant Singh & Refrigeration Enterprises, Sardar Bhagat Jaswant Singh Marg, Ambala, Haryana; Offr Incharge: P K Baveja, Ph resi: 56095; Ghaziabad Factory: Loni Rd, Mohan Nagar, Ghaziabad, UP; Ph: 201192, 201045, 201048; Offr Incharge: Dr N K Malhotra. SOUTH ZONE: Zonal Off: M G Rd, Bangalore 560001; Ph: 576375, 563794; Zonal Mgr, Foods Div: Dr S George, Ph resi:576675; Asst Mgr: Benjamin Jacob; Bangalore Plant: 16th Mile Tumkur Rd, Maya Indl Estate, Madawara, Nagasandra, Bangalore 560073; Ph: 385673; Mgr: Dr B V Joshi, Ph resi: 350213; Plant Incharge: Dr Shankar Kumar; Sales Reps: Dr C S Rao, Vivekbabu, Shyam S Udupa; Coimbatore Plant: Sundarapuram PO, Coimbatore 641024;Ph: 86291; Offr Incharge: K K P Menon; Sales Supervisor: Verghese;Sales Reps: Rajagopal, Alexander, B N Suresh; Madras Factory: 18/22 Elaiya Mudali St, Thondiarpet, Madras 600081; Ph: 551021, Tlx: 7235; Sales Reps: E W P Ezekil, Venkataramaiah. WEST ZONE: Bombay Plant: c/o Bhargavi Enterprises, Sr No 186, Plot No 4H, Vill Purna, Tq Bhiwandi, Dist Thane; Ph: 924, 7974;Offr Incharge: S K Tripathi, Ph resi: 481169; Sales Reps: Dr S Kshirsagar, U S Singh;Karad Plant: c/o Prashant Processors, Sadashivgad, Oglevadi, Karad, Maharashtra; Ph: 2555; Offr Incharge: Dr E K Sawhney; Sales Reps: M S Deshpande, Ambekar; Navsari Plant: Tata Baug, Lunsikui, Navsari, Gujarat; Ph: 3025;Offr Incharge: Dr S Chandra, Ph resi: 4313; Sales Reps: Dr U M Huddar, J K Arekar. Brand Name: Chic-Pic.

TIRUMALA FEEDS, 11 Arundelpet, Guntur 522002; Ph: 21929; Chief Exec: A N Narayana Reddy.

TRIPURA CATTLE FEED PRODUCTS & OTHER INDUSTRIES, Near Power House, Banamalipur, PO Agartala 799001, Tripura West; Manindra Kumar Debnath.

U P FEED MILL (c/o Sir Shadi Lal Gardens), Ghasipura Vill, PO Mansurpura, Muzaffarnagar Dist, UP.

U P STATE AGRO INDUSTRIAL CORPORATION LTD, Regd off: 22 Vidhan Sabha Marg, Lucknow; Ph: 43485, Gram: Upagro (Daliganj); Balanced Livestock Feed Div (Khanna Mills): Daliganj, Lucknow; Gen Mgr: Dr M L Bhargava. Branches: Agra, Aligarh, Allahabad, Bareilly, Faizabad, Gorakhpur, Jhansi, Meerut, Ruderpur, Varanasi. Brand Name: Agro.

VALSAD JILLA PASHU AHAR UTPADAK SAHAKARI MANDLI LTD, Gandevi 396360, Valsad Dist, Gujarat; Ph: 317, Gram: Sahayog. Brand Name: Sahayog.

VARDAN FEED MILLS, Bhaiwala Chowk, Ghumar Mandi, Ludhiana 141001; Mg Partner:Brij Mohan Kaura; Ph: 31780, 30948. Fac:Vill Kadian, PO Bhatian, G T Rd, Ludhiana.

VICTORY FEED CENTRE, Mubarakagar, Nizamabad 503001; Ph: 271; Prop: Ravibabu

WALFARS FEEDS PVT LTD, 24 Ismail Rowther St, T E L C Compound, Coimbatore 641001; Ph: 24660 (PP), factory: 80280, Gram:

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Ph: Off: 65401.

'Jagadish Baug', Navanagar,
Hubli-Dharwad Road,
HUBLI 580 025.
Fact: 65304.

Walfars; Mg Dir: Raajkumar Walter, Ph resi: 33646; Dirs: R Sunderraj, Francis Raja; Chief Mktg Exec: M Manoharan. Regd off: 9/41-B Dr Jagannath Nagar, Peelamedu, Coimbatore 641014. Factory: 6/9 Sugunapuram, Coimbatore 641008.

WEST BENGAL DAIRY & POULTRY DEVELOPMENT CORPORATION LIMITED, 16 Netaji Subhas Rd, 3rd Floor, Calcutta 700001; Ph: 221955, 229432, 224422, 224802, Gram: Dairpoul; Mg Dir: A L Banerjee; Dep Mgr (Mktg): S B Chowdhury; Dep Mgr (Purchase): S N Basu. Feed Milling Plants: Kalyani: D-23 Industrial Area, Kalyani, Nadia Dist; Ph: 475 (Kalyani), Gram: Dairpoul; Mgr & Nutritionist: A Sinha; Siliguri: Pradhan Nagar. Brand Name: EPIC.

YARANA FEEDS & FARMS, B 55, 56 & 87 Indl Estate, PB No 2, Hubli, Karnataka; Ph: 64875, 64450, Gram: Yarana; Dirs: Dr N S Dronawat, Rajan Thakkar. Brand Name: Yarana.

Late Additions

AHUJA FEED STORE, Opp Manjit Store, Fazilka, Punjab; Ph: 589.

ARAMBAGH HATCHERIES LIMITED, 59-B Chowringhee Rd, 3rd Floor, Calcutta 700020; Ph: 449324, 432179, 435873, Gram: Aramhatch; Dir: P K Roy.

C B R FEEDS PRIVATE LIMITED, 4 F Subhodaya Apartments, 4-1-1233 Boggulkunta, YWCA Lane, Hyderabad 500001; Ph: 232774, Gram: Bestchicks; Mg Dir: C B R Prasad; Dir: Dr K Buchi Reddy; Chief Nutritionist: Dr V C Metta. Brand Name: CBR.

DEEJAY FARM, St Patrick's Complex, 3rd Floor, Brigade Rd, Bangalore 560025; Ph: 562738, 562749, Gram: Babcock, Tlx:0845-604; Mg Dir: David J Lobo; Dir & Chief Exec: Winston V D'Cruz; Sr Mgrs, Poultry Ops: Keith J Rosario, Dr James Gnanaolivu. Plant: 6th Mile Bagalur, Vadarapalaya, Banaswadi PI, Bangalore 560043; Ph: 55367; Head: D Ram Prasad.

GOLDEN AGPRO FEEDS PVT LTD, BXXI-2633 Gill Rd, Near ATI, Ludhiana 141003; Ph:24627, resi: 25868. Brand Name: Agpro.

JAY KAY FEED MILLS PVT LTD, 56-K Sarabha Nagar, Ludhiana; Ph: 30165. Brand Name: Jay Kay.

METTA FEED SPECIALITIES, 217/3 RD Saidabad Colony, Hyderabad 500659; Ph: 559461 PP; Prop: Dr V C Metta. Brand Name: Metta.

MODERN POULTRY PRODUCTS, 40-41 Vill Chattarpur, Mehrauli, New Delhi 110030; Ph: 651232; Prop: Harish C Juneja, Ph (resi): 664040. Brand Name: MPP.

NATIONAL FEED STORE, Bharat Nagar Chowk, Ludhiana; Ph: 28487, resi: 32286. Brand Name: National.

PRAGATHI FEEDS, Near Uppal Bus Depot, Canara Nagar, Pheerzadiguda, Uppal, Hyderabad 500039; Ph: 852012; Mg Partner: U Muralidhar Rao. Brand Name: Pragathi.

SRI RAM FEED, Room No 8, Abdul Rehman Bldg, Alta Quarter, Khapouli, Dist Raigad, Maharashtra.

UNITED FEED MILLS, G T Rd, Doraha, Dist Ludhiana, Punjab; Ph: 195, Gram: United. Branches: Ahmedgarh, Khanna.

URBAN HI-BREED FARM PRIVATE LIMITED, 109/1A B R B Bose Rd, Calcutta 700001; Ph: 269111, 269119, Gram: Hibreed; Mg Dir: S N Sen. Farm & Factory: Diamond Harbour Rd, PO Joka 743512, Dist 24 Parganas; Ph: 615-241/281. Brand Name: Sen.

VENTRI CHEMICALS PRIVATE LIMITED, Feed Div, 13/6 Milestone, Panshet Rd, PO Girinagar, Pune 411025; Ph: 442244, 442748, Tlx: 0145-329, 0145-319; Nutritionist: Dr R D Brahmakshatriya; Asst Production Mgr: K Israil.

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Regionwise Index to Feed Manufacturers

An index to Feed Manufacturers is given below regionwise and is further classified statewise within their respective regions. For details of the individual entries, the main list may be consulted.

Northern Region

Chandigarh

- Chandigarh Feed Mills
- Lipton India Ltd
- North Star Agro Industries Pvt Ltd
- Punjab Poultry Development Corpn Ltd

Delhi

- Bhandari Crossfields Ltd
- Crown Feed Mills
- Delhi Consumer's Coop Wholesale Store Ltd
- Feed Distributors
- Feed Traders
- Kafco
- Kapur Enterprises
- Khaneja Feed Stores
- Krishna Flour Mills
- Kwality Feed Mill
- Mod Feed Products
- Modern Feed Mills
- Modern Poultry Products
- Nandi Provender Mills
- New Delhi Feed Mills
- North Star Agro Industries Pvt Ltd
- Radha Agro Industries (P) Ltd
- Rajindera Feed Mills
- Sohan Lal & Sons
- Tata Oil Mills Co Ltd

Haryana

- Ami Chand Makhan Lal
- Hafed Cattle Feed Plant
- Haryana Agro Cattle Feed Plant
- Haryana State Coop Supply & Mktg Ltd
- Ideal Feeds
- Kafco
- Radha Agro Industries (P) Ltd
- Raj Feed Mills
- Swastik Feeds
- Tata Oil Mills Co Ltd

Himachal Pradesh

- Himachal Pradesh Agro Industries Corporation Ltd

Jammu & Kashmir

- Standard Feeds

Madhya Pradesh

- Ahar Kendra
- Bhandari Crossfields Ltd
- EID Parry (I) Ltd
- Govt of Madhya Pradesh
- Jai Kisan Agro Products
- MP State Coop Mktg Fed Ltd
- Malav Feeds & Fertilizers
- Praveen Feed Industries
- Prestige Feed Mills
- Raichur Oil Complex

Punjab

- Ahuja Feed Store (Late Addition)
- Amir Singh Arjan Singh
- Amritsar Feed Mills
- Aurora Feed Mills
- Bhandari Crosfields Ltd
- Brico Organisers
- Dasuya Coop Poultry Society Ltd
- Farmers Feed Corporation
- Friends Feeds
- Ganesh Provender Mills
- Godrej Soaps Pvt Ltd
- Golden Agpro Feeds Pvt Ltd (Late Addition)
- Gulri & Co
- Hind Animal Feed Industries
- I A F Company
- Jay-Kay Feed Mills Pvt Ltd (Late Addition)
- Kamsun Traders
- Lipton India Ltd
- Ludhiana Feed Mills

Markfed Refined Oil & Allied Industries
National Feed Store (Late Addition)
Prem Feed Store
Punjab Feeds
Punjab Poultry & Feeds
Punjab Poultry Development Corporation Limited
Radha Agro Industries (P) Ltd
Samra Poultry Products Pvt Ltd
Super Feeds & Chemicals
United Feed Mills (Late Addition)
Vardan Feed Mills

Rajasthan

Bhandari Crosfields Ltd
Supreme Animal Feeds

Uttar Pradesh

Amar Agencies
Govt of Uttar Pradesh
Gulri Feed Suppliers
Jaishree Poultry Feed Industries
Jay Em Provender Mills
Kapsons Enterprises
Lipton India Ltd
Shakti Livestock Feeds (P) Ltd
Tata Oil Mills Co Ltd
UP Feed Mill
UP State Agro Industries Corpn Ltd

Western Region

Goa

Govt of Goa, Daman & Diu

Gujarat

Ashish Feeds
Bhandari Crosfields Ltd
Delux Feed Products (P) Ltd
Godrej Soaps Pvt Ltd
Govt of Gujarat
Krishna Enterprises
Kwality Animal Feeds
Lipton India Ltd
Modern Poultry Feeds
Shah Chemical & Fertilizer Pvt Ltd
Surat Dist Coop Milk Producers Union Ltd
Sushil Feeds
Tata Oil Mills Co Ltd
Valsad Jilha Pashu Ahar Utpadak Sahakari Mandli Ltd

Maharashtra

Corn Feed
Delux Feed Products (P) Ltd
Food Fats & Fertilizers Ltd
Godrej Soaps Pvt Ltd
Hindustan Feed Products
Krishna Sahakari Sakhar Karkhana Ltd
Laxmi Feeds & Exports Pvt Ltd
Lipton India Ltd
Maharashtra Agro Industries Dev Corpn Ltd
Mayur Sahakari Kukkut Palan Society Ltd
Mohamed Rafiq Abdul Sattar
Nav Maharashtra Chakan Oil Mills
Nocrsons
Paushtik Foods & Feeds
Shetkari Sahakari Sukhar Karkhana Ltd
Shree Warna Kombadi Sahakari Sangh Ltd
Sri Ram Feed (Late Addition)
Talwalkar Feeds
Tata Oil Mills Co Ltd
Ventri Chemicals Pvt Ltd, Feed Div (Late Addition)

Southern Region

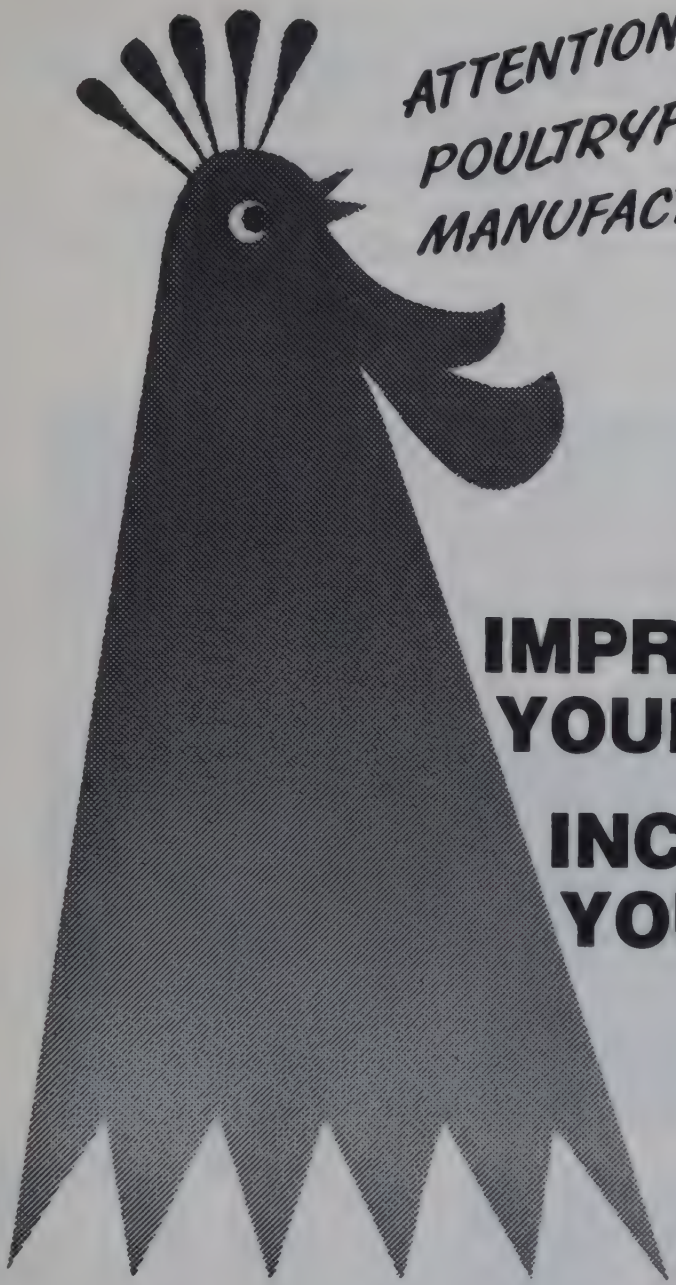
Andhra Pradesh

Adoni Protein Feeds
Andhra Pradesh State Meat & Poultry Dev Corpn Ltd
Balaji Foods & Feeds Ltd
CBR Feeds Private Limited (Late Addition)
Coromandel Agro Products & Oils Ltd
Dheeraj Industries
Dr Ghazi's Perfect Feeds
EID Parry (I) Ltd
Eggmore Feeds
Essen Feeds
Food Fats & Fertilizers Ltd
Haji Mohamed Husain Enterprises
Hy-Fed Poultry & Cattle Feeds
Hy-Pro Poultry & Cattle Feeds
J K Feeds
Janaki Industries
Kwality Feeds
Lipton India Ltd
Mahalaxmi Feed Mixing Co
Maharaja Feeds
Maheshwara Industries
Markfed Feed Mixing Plant
Master Feed & Food Products
Metya Feed Specialities (Late Addition)
Ojo Feeds Co
Pragathi Feeds
Prakash Enterprises
Prestige Feeds
Ramprasad Feed Industries
Royal Feed
Saptagiri Poultry Feeds
Singh Poultry Pvt Ltd
Sri Rajkamal Animal Feeds Manufacturers
Super Foods & Feeds
Suresh Feed Products
Taraka Feeds
Tirumala Feeds

Karnataka

Bhaskar Bio-Industries

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Darmstadt F R Germany

E. Merck (India) Limited

Bramhappa Tavanappanavar Pvt Ltd
Chetna Feeds
Deejay Farm (Late Addition)
EID Parry (I) Ltd
Govt of Karnataka
Hulkoti Coop Cattle Feed Processing Society Ltd
Kamadhenu Feeds
Karnataka Agro Corn Products Ltd
Komarla Feeds
Laxmi Feeds & Exports Pvt Ltd
Lipton India Ltd
Madhu Pulverizers
Mysore Feeds Pvt Ltd
Pavi Vegetable Oil Industries
Rising Sun Feeds
Ryots Agril Produce Coop Mktg Society Ltd
Sifi Feeds
Sree Gajanana Rice & Oils Mills Ltd
Sudarshan Feeds
Surtarm Feeds
Tata Oil Mills Co Ltd
Yarana Feeds & Farms

Kerala

EID Parry (I) Ltd
Govt of Kerala
Kerala Solvent Extractions Ltd
Livestock & Poultry Feed Plant

Pondicherry

Govt of Pondicherry

Tamil Nadu

AVM Cattle & Poultry Feeds Manufacturing Industries
Devi Traders
EID Parry (I) Ltd
Feeds India
Food Fats & Fertilizers Ltd
Godrej Soaps Pvt Ltd
Indian Commercial Syndicate
K R V Agencies
Kaveri Feeds
Kerala Trading Corporation
Kwality Agro-Vet Industries
L S P Fats & Feeds
Lipton India Ltd
Livestock & Feed Equipment Co
Madras Poultry Feed
Morisson Feed Mill
Ruhsa Animal Feed
SKM's Energy Animal Feeds Pvt Ltd
S M Feeds Pvt Ltd
Sakthi Sugars Ltd
Samy Feeds
Senthil Poultry Farm
Shunmugamohan Trading Co
Tamil Nadu Poultry Dev Corpn Ltd
Tata Oil Mills Co Ltd
Welfare Feeds Pvt Ltd

Eastern Region

Andaman & Nicobar

Govt of Andaman & Nicobar

Arunachal Pradesh

Govt of Arunachal Pradesh

Assam

Delux Feed Products (P) Ltd
Govt of Assam
Manas Products (Protein) Pvt Ltd

Bihar

Biridhichand Chiranjilal
Patna Poultry Farmers Coop Society

Meghalaya

Govt of Meghalaya

Nagaland

Govt of Nagaland

Orissa

Animal Feeds Dairies & Chemicals Pvt Lt
Baal Gopal Agro-Vet & Chemical Industries Pvt Ltd
EID Parry (I) Ltd
Govt of Orissa
Kosala Enterprisers
Orissa Agro Industries Corporation Ltd
Tata Oil Mills Co Ltd

Tripura

Govt of Tripura
Tripura Cattle Feed Products & Other Industries

West Bengal

Arambagh Hatcheries Ltd
Ballygunge Fodder Mills
Bengal Fodder Mills
Bhandari Crosfields Ltd
Chiranjilal Agarwal
EID Parry (I) Ltd
Food Fats & Fertilizers Ltd
Induss Feeds
Intex (India)
Kolay Feed Compounding Co
Mahakali Protein Food & Feed
Nadia Feed & Fodder Mills (Pvt) Ltd
Rising Sun Feeds (Late Addition)
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Feed Ingredient Suppliers

Suppliers of feed ingredients are listed below statewise. Special efforts have been made to highlight dealers, producers of inedible agricultural by-products and industrial wastes. At the end of the listing is a Buyer's Guide to feed ingredients, arranged alphabetically. The name of the respective state is given along with company's name to help locate the entry in the listing and obtain relevant information about it.

Andhra Pradesh

A-1 FEEDS, Kothapet Cross Rd, Saroornagar, Hyderabad 500035; Ph off: 59341, resi: 57807.

AGRI KEM, Shed No D-2, Phase III, Jawahar Autonagar, Vijayawada 520007 — V L Prasad.

AMRITLAL & CO, 7-5-61, Gunj, Nizamabad 503001, Hyderabad Dist; Ph: 228.

ANDHRA BONEMEAL FERTILISER & GLUE MANUFACTURERS, THE, 4/90-A, Nawabpet, Nellore 524002.

ANDHRA FEEDS EXPORTERS, PO Chilakalpaudi, Machilipatnam 521002, Krishna Dist; Ph: 639, Gram: Andhrafeed; Mg Partner: Maddula Panduranga Rao.

ANDHRA OIL & CAKE PRODUCTS LIMITED, PB No 10, Vizianagaram 531202; Ph: 2248, Gram: Oilcake.

ANDHRA PRADESH STATE COOPERATIVE MARKETING FEDERATION LIMITED, Hyderabad 500001; Ph: 86436, Gram: Cosep; Unit Solvent Extraction Plant: Autonagar, Vijayawada 520007; Ph: 42775, Gram: Comark; Mustafa Hussain, K Narayana Murthy.

ANIMAL BY-PRODUCTS PLANT, Govt of AP, Kesarapalli, Gannavaram 521101, Krishna Dist; Ph: 35 (Gannavaram); Proj Offr: Dr S Madhusudana Rao.

BALAJI FEED SUPPLEMENTS, Plot No 2, 1st Cross Rd, Jawahar Autonagar, Vijayawada 520007; Ph off: 52814, resi: 74110; Mg Partner: P Satyanarayana.

CORCMANDEL AGRO PRODUCTS & OILS LTD, Jandrapeta, Chirala 523155; PB 34; Ph: 695, 551, 489, Gram: Capol; Partners: Capt J Rama Rao (Retd) & P M Mohan Rao.

DHANRAJ KALANTRI, Maharajgunj, Hyderabad 500012; Ph: 44618, 41271, Gram:Kalantri.

DHEERAJ INDUSTRIES, 14-8-571 Chudi Bazar, Hyderabad 500012; Ph: 44468, 45289, Gram: Dheerajfeeds.

DOLPHIN FISH INDUSTRIES, 4-1-1236 King Koti Rd, Hyderabad 500001; Ph off: 220899, factory: 80 (Hayatnagar); Prop: T M Kutty, Ph resi: 222199.

EMCO INDUSTRIES, Opp Royal Talkies, Sultan Bazar, Hyderabad 500001; Ph:42709,47306.

ESSEN ENTERPRISES, Peddibhotlavari St, Governorpet, Vijayawada 520002; Ph: 63201, 74110 (resi); Prop: P Satyanarayana.

HAJI MOHAMED HUSAIN & SONS, Mandi Miralam, Hyderabad 500002; Ph: 43987, 51971, Gram: Finefish. Branches: Mallapally, Malakpet, Mozam Jahi Market.

HANUMANTHA FEED STORE, Polavarapu, Gudlavalleru PO 521356, Gudivada Tq, Krishna Dist; Ph: 212 (Gudivada)

HARI HARA TRADERS, Narsampet Rd, Warangal 506012 — M Srinivasulu.

HI-LAY FOODS & FEEDS, 9-13/4, Plot No 35, Durga Nagar, Hyderabad 500036; Ph: 59390 — P Janardhan Rao.

J K & CO, Zia Talkies Rd, New Mallepally, Hyderabad 500028; Ph: 35020.

JALLURI NAGESWARA RAO & CO, Kaleswara Rao Market, Vijayawada 520001; Ph: 75633, 77106, Gram: Sriphal.

JAYA LAXMI TRADERS, Benz Circle, Ring Rd, Vijayawada 520006 — Dr Subba Rao.

KAMAL COMMERCIAL CORPN, 15-2-458 Kishangunj, Hyderabad 500012; Ph: 46241, Gram: Jaijawan.

KHAJA MIA HAJI MOHD HUSSAIN COMPANY, Miralam Mandi, Hyderabad 500002 — Javid Luli Pasha.

KISAN TRADERS, Janardhan Swamy Temple St, Eluru 534001 — K Venkateswar Rao.

See also LATE ADDITIONS at the end of the listing

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Phone: 4591/2/3
Gram: BENTOS, AURANGABAD (DN)
Telex: 0745-231 KORA IN

LAXMI POULTRY FEED CENTRE, Tanuku 534211, West Godavari Dist — M Nagabhushana Reddy.

LUCKY FEED MERCHANTS, Main Rd, Pamarru 521142, Krishna Dist -- A Koti Reddy.

MAHALAKSHMI TRADERS, 55-5-23 Vanisreenilayam, Jagannaickpur 533002 (Kakinada); Ph: 3210; Chief Exec: G Jaggarao.

MAHALAXMI FEED MIXING CO, 11-49-161, Sivalayam St, Vijayawada 520001; Ph: 61102, Gram: Feedmixco; K G Krishna,V Karedia.

MAHARAJA FEEDS, 19 Km-stone, Nagarjunasagar Rd, Manneguda Bus Stop, via Mangalpalli, Hyderabad East 501510; Ph: 66 (Turka Yamzal Exchange), 59278 (resi).

MINTHINTI PATTABHI RAMAYYA, Kaleswara Rao Market, Vijayawada 520001; Ph: 74704, Gram: Narielwala.

MODERN FEEDS & FEED PRODUCTS, Turka Yamzal, PO Mangalpalli, Hyderabad East 501510;Mg Partner:Dr D L Narasimha Rao.

NANDYAL AGRO-VET INDUSTRIES PVT LTD, THE, Gangavaram 518583, Kurnool Dist; Ph: 35 (Gazulapally); Mg Dir: G Vijaya Raghavan. Branches: Bellary, Chittoor, Hyderabad, Pamarru.

NATARAJA BROKERS, 12-9-14 Mattavari St, Vijayawada 520001; Ph: 76717, 62965, 72450.

NEO FEED MIXERS, Nayanagar, Kodada — A Laxma Reddy.

NEW TIRUMALA GIRI TRADERS,Gudiwada 521142, Krishna Dist — G Venkateswara Rao.

NOVODAYA TRADERS, MORRISPET, Tenali 522202; Ph: 4160; Mg Partner: P Madhusudhan Rao, Ph (resi): 4243.

OM PRAKASH SURESH CHANDRA DEVDA & CO, 15-2-321 Muktiyar Gunj, Hyderabad 500012; Ph: 53855, 52955, 45654.

P YADAIAH & BROS, 3-3-588 General Bazar, Secunderabad 500003; Ph: 75898, 73111 (resi); Partner: P Sudarshan.

POTTABATHNI MINERALS & CHEMICALS, 3-3-518, General Bazar, Secunderabad 500003; Ph: 75898, Gram: Pottabathini.

PRADEEP POULTRY FEED CENTRE, Kodad, Nalgonda — V Krishan Reddy.

PRASHANTH ENTERPRISES,6-67 Pedda Amberpet, Hayatnagar Tq, Ranga Reddy Dist; Ph:61.

R R TRADERS, near Ranga Statue, Repalle 522101, Guntur Dist — K Venkat Reddy.

RAGHUPATI TRADERS, Kuntloor Rd, Hayatnagar 501505, R R Dist -- P Brahmaiah.

S SHANKARAPPA & BROS, Dryfish mearchants & animal feed ingredients, Begum Bazar, Market, Hyderabad 500012; Ph: 45135, 52285, Gram: Jalapushpam.

SHREE AMBIKA FERTILIZER CO, 3-6-356 Bashir Bagh, Hyderabad 500029; Ph off: 36798, resi: 61879, Grams: SAFCO. Branch: Warangal.

SOUTH INDIA FERTILIZERS & CHEMICALS CORPORATION, 3-6-345/1, Bashir Bagh, Hyderabad 500029; Ph: 35475, Gram: Dignity; Mg Partner: Dinesh K Patel. Branch: 18/162/A-8 Old Town, Anantapur 515001; Ph: 3044; Mgr: D S Rao.

SRI LAXMI POULTRY ENTERPRISES, 9-37-7 Pithapur Colony, Visakhapatnam 530003; Ph: 64694; Mg Partner: Dr T Rama Rao.

SRI RAJKAMAL ANIMAL FEED AGENCIES, F-2 Building, Industrial Estate, Anakapalle, Vizag 531002; Ph: 2800, 2008; Prop: K Varahalaraju, Ph resi: 2870.

SRI RAM KRISHNA TRADERS, Yagarlapalli, Tadepalligudem — E S N Murthy.

SRINIVASA ENTERPRISES, Bunder Rd, Edupugalli 521142, Krishna Dist — K V Subbaiah.

SRINIVASA TRADERS, Kuntloor Rd, Hayatnagar 501505, R R Dist — M Krishna Rao.

VASANT TRADERS, 16-11-737 Gaddiannaram, Hyderabad 500036; Ph: 59043.

VASU POULTRY FEED CENTRE, Gudivada -- K Preme Rao.

VENKATARAMANA & CO, East Fort Warangal, Warangal 506002; Prop: C S R Sastry

VENKATESWARA TRADERS, Tilak Rd, Tenali 522202 -- A Krishna Reddy.

VIJAYA DURGA POULTRY TRADERS, Tanuku 534211, West Godavari Dist — Satyanarayana.

VIJAYALAKSHMI TRADERS, Kankipadu 521142, Krishna Dist — T Bala Ram Rao.

YARLAGADDA POULTRY, Chellapalli, Divi 521126 — B Kutumba Rao Choudary.

Assam

DELUX FEED PRODUCTS PVT LTD, G S Rd, Ulubari, Guwahati 781007; Ph: 24937, 25877, Gram: Deluxfeed; Mg Dir: V P Chibber. Regd off: Bombay. Ph: 334489, 330382.

INDO MARINE PRODUCE COMPANY, Jayanarayan Rd, Fancy Bazar, PB 32, Guwahati 781001; Ph: 28437, 31645, Gram: Texinage; Partners: N Gopinath Menon, Vijay Kumar Jain.

MANAS PRODUCTS (PROTEIN) PVT LTD, Uzan Bazaar, F C Rd, Guwahati 781001; Ph: 27970, Gram: Manashouse; Dirs: A K Choudhury, D K Choudhury, R K Choudhury, J K Choudhury.

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BRIDHICHAND CHIRANJILAL, PO Jugsalai, Jamshedpur 831006; Ph: 25457, 23216, Gram: Shivratanco; Mg Partner: Shivratan Bhauka.

Chandigarh

ASHISH TRADING INDUSTRIES, SCO 52-53, Sector 17C, Chandigarh 160017; Ph: 29227; Partner: Ganpat Rai

ASHOKA & COMPANY, 182/78 Industrial Area, Chandigarh 160002; Ph: 20597, 28624; Mg Partner: Ashok Kumar Garg. Branch: 332 Industrial Area, near Dhaliwal Chowk, Ludhiana 141003; Ph: 24362; Mgr: Ajeet Jain. Brand Name: Ashoka.

HARYANA STATE CO-OPERATIVE SUPPLY & MARKETING FEDERATION LTD, THE (HAFED), SR-19, Sector 7C, Madhya Marg, Chandigarh 160017; Ph: 21731, Gram: Hafed.

NEW DEWAN OIL MILLS, 93/94 Industrial Area, Chandigarh 160002; Ph: 20703, 26647.

PUNJAB STATE CO-OPERATIVE SUPPLY & MARKETING FEDERATION LTD, THE (MARKFED), Sector 17, Chandigarh 160017; Ph: 28451; Mktg Mgr: O N Dhawan, Ph: 20342.

RAJINDER FEED MILLS, 100 Industrial Area, Chandigarh 160002; Ph: 26250, 23547.

Delhi

AGARWAL UDYOG, 522-525 Lahori Gate, Naya Bazar, Delhi 110006; Ph: 233134, 235029; Partner: Jai Narain Agarwal, Ph resi: 2544 (Hapur).

B S OIL TRADERS, 13 DLF Industrial Area, Najafgarh Rd, New Delhi 110015; Ph: 583380, 582508, 585440.

BAWA BONE MILLS, 202 Katra Baryan, Fatehpuri, Delhi 110006; Mg Dir: V S Bawa.

BHAGWATI ENTERPRISES, 5122-23 Rui Mandi, Sadar Bazar, Delhi 110006; Ph: 777913; Mg Partners: Rajesh Kumar, Ravinder Kumar, Ph resi: 7123860.

DELHI CONSUMER'S COOPERATIVE WHOLESALE STORE LTD, Karampura Rd, Moti Nagar, New Delhi 110015; Ph: 502970 & 501849; Gen Mgr: R S Tyagi; Administrator: Bansi Dhar; Tech Expert: Dr Lachman Singh. Brand Name: Coops.

FAIR BUSINESS CENTRE, 2432 Chawri Bazar, Delhi 110006; Ph: 269829; Prop: Kalyan Sahai Gupta.

JHANDU MAL MOHAN LAL, 4100 Naya Bazar, Delhi 110006; Ph: 254331.

KARTAR SINGH & SONS, 7223 Chowk Azad Market, Delhi 110006; Ph: 527918.

KHAN CHAND AINSHI LAL, 7219 Pul Bangash, Chowk Azad Market, Delhi 110006; Ph: 513287, resi: 500236.

KRISHAN LAL ASHOK KUMAR, 2747 Waga Bazar, Delhi 110006; Ph: 2526378; Partners: Krishan Lal Ahuja, Vijay Kumar Ahuja & Ajay Ahuja, Ph resi: 5721396.

KRISHNA FLOUR MILLS, 4561 Regharpura, Karol Bagh, New Delhi 110005; Ph: 5728883; G C Gupta.

MANGE RAM OM PRAKASH, 523 Naya Bazar, Delhi Delhi 110006; Ph off: 231505, 238620.

MATWAL CHAND MADAN LAL, 7219 Pul Bangash, Chowk Azad Market, Delhi 110006; Ph: 513287, 500236 (resi).

MCD FEED PRODUCTS, 40-41 Vill Chattarpur, Mehrauli, New Delhi 110030; Ph: 667292 (PP); Prop: Baldev Raj Juneja, Ph resi: 663868.

MODERN FEED MILLS, 89 Vill & PO Chattarpur, Mehrauli, New Delhi 110030; Ph Factory: 664992, 667292, resi: 653436, 663868; Prop: Amar Nath Juneja.

MUKESH TRADING COMPANY, 2748 Naya Bazar, Delhi 110006; Ph off: 527498, resi: 5727185, Gram: Madhurbani.

NARESH CHAND SANJN KUMAR, 522 Lahori Gate, Delhi 110006; Ph: 233134, 235029, Gram: Narsons.

NEW DELHI FEED MILLS, 90 Chattarpur, New Delhi 110030; Ph: 651535, 669079; Partner: Ramesh Chander.

NORTH STAR MARKETING PRIVATE LIMITED, 407 Lakshmi Bhawan, 72 Nehru Place, New Delhi 110019; Ph: 6413130, Gram: Norstar, Tlx: 31-3969 NSM IN; Mg Dir: Ravi Sikund.

OKURA & CO LTD, 104 Ashoka Estate, Barakhamba Rd, New Delhi 110001; Gen Mgr: T Sasaki.

RADHA AGRO INDUSTRIES (P) LTD, 69 Bagh Diwar, Fatehpuri, Delhi 110006; Ph: 2512230, 2512240; Mg Dir: Ashok Kumar Aggarwal, Ph resi: 2523888; Tech Dir: J S Gulia. Branch: Mandi Kesar Ganj, Ludhiana; Ph: 22173, 29775; Resident Dir: Vijay Kumar Aggarwal. Brand Name: Radha.

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RAM NIWAS AGARWAL, 234 Fatehpuri, Chandni Chowk, Delhi 110006; Ph off: 2511238, 2511239, 2528113, resi: 611636, 623536, Gram: Pushpak.

RAMA TRADING CO, 2656 Naya Bazar, Delhi 110006; Ph: 230009.

RISHI FEED TRADERS, Vill Chattarpur, New Delhi 110030.

RUDRA TRADING CO, 4111 Naya Bazar, Delhi 110006; Ph: 2525067; Prop: Deepak Rudra, Ph resi: 7112752 (PP).

SARDA FOOD PROCESSING & ENTERPRISES PVT LTD, P-18 Green Park Extn, New Delhi 110016; Ph: 661033, 669944. Factory: Plot No 93, Sector 25, Faridabad, Haryana; Dir: L K Sarda.

SOHAN LAL & SONS (REGD), 386 Chattarpur Vill, Mehrauli, New Delhi 110030; Ph: 777277, 779277 (resi); Partners: Kashmere Lal, Jugal Kishore.

SUNDER LAL AMIT KUMAR, 387 Vill Chattarpur, Mehrauli, New Delhi 110030; Ph Factory: 667292, resi: 651665; Prop: Sunder Lal Juneja.

SURESH KUMAR AGARWAL & CO, 234 Fatehpuri, Chandni Chowk, Delhi 110006; Ph off: 2511238, 2511239, 2913826, resi:611636, 623536, Gram: Pushpak.

UPPER INDIA BONE MILLS, 19 Link Rd, Jangpura, New Delhi 110014 — M L Kapur. Branch: Hapur.

Goa

D'CUNHA ENTERPRISES, PO Usgaon 403408, Salcete Tq; Ph: 49; Mg Partner: Vincent D'Cunha

FIESTA FISHERIES, 200 Corte Real, Santa Cruz, Ilhas, Goa; Prop: Michael Coelho.

Gujarat

COSMOPOLITAN MARINE ENTERPRISES, Bhidia Plot, Veraval 362267; Ph off: 20785, 20966, resi: 20742, Gram: Cosmar; Mg Partner: Vichai Ratnabhas.

DEVDOOT INDUSTRIES, Bhavnagar Rd, Amreli 364601, PB 32; Ph: 2511, 2512, Gram: Devdoot; Mg Partner: Ravjibhai Patel.

DIAMOND DRY FISH CENTRE, Cutlery Bazar, Basathia St, Veraval 362265; Ph: 255, Gram: Wajawala.

DIPAK SOLVENT EXTRACTION INDUSTRIES, Jawahar Rd, Manavdar 362630; Ph: 267, 508, fact: 523, Gram: Oil; Mg Partner: G G Patel, Ph resi: 267.

DURLABHAJI BHAGWANJI, Main Rd, Valsad 361150, PB No 24; Ph: 2861, 2759, Gram: Acidchem.

GUJARAT AGRO MARINE PRODUCTS LTD, Patel Bldg, opp M J Library, Ellis Bridge, Ahmedabad 380006. Plant: Mangrol, Junagadh Dist.

HABIB BROTHERS, GIDC Plot No 413, Veraval 362269; Ph: 1052. Head off: Bombay.

J K EXPORT INDUSTRIES, Vadal Rd, Savitabag, PO Box No 37, Junagadh 362003; Ph: 1431, 2080, 1389, fact: 1432, Gram: Edible, Tlx: 0164-204 LUCK IN; Mg Partner: Mohanlal Bhimjibhai Patel, Ph resi: 914; Partner: Jagjivan Pursottamdas Patel, Ph resi: 644.

JAGDISH EXPORT INDUSTRIES, Vadal Rd, Dolatpara, Junagadh 362001; Ph: 1519, 1681, Gram: Daulat, Tlx: 0164-203; Partner: H H Patel, Ph resi: 442.

JAGDISH OILCAKE INDUSTRIES, 185-B Naroda Industrial Estate, Naroda 382330, Dist Ahmedabad; Ph: 827148, 826155, 826558, Gram: Oilcake; Mg Partner: Chandulal H Patel, Ph resi: 66454.

JAYSHRI PULVERISERS, near Pathik Bhuvan, Chhota Udepur 391165; Ph: 131; Partners: J C Parikh & P C Parikh, Ph resi: 100.

KANU FEEDS, D2-29 GIDC Estate, Antalia, B Bilimora 396321; Ph:2751--Kanu Chandra

KRISHNA OILCAKE INDUSTRIES, PO Box No 20, Porbandar Rd, Upleta 360490; Ph: 226 & 153, Gram: Krishnacake; Mg Partner: Ravjibhai P Patel, Ph resi: 25.

MAHENDRA OILCAKE INDUSTRIES PVT LTD, Opp Wind Mill Godowns, Bedeshwar, Jamnagar 361002; Ph: 71650, 71850, 73762, Gram: Mocil; Dirs: J H Patel, Ph resi: 71649, V V Patel, Ph resi: 71808. Head off: Orbit Centre, III Floor, Moti Tanki Chowk, Rajkot 360001; Ph: 26619, 33406, Gram: Mocil, Tlx: 0169-252; Dirs: M J Patel, Ph resi: 23916, L J Patel.

MANJULA MARINE TRADERS, Bhidiya Plot, Veraval 362267; Ph off: 296 (PP), resi: 907.

NRH COMPANY, Port Area, Mangrol 362225, Dist Junagadh, Gujarat; Ph: 176, Gram: NRH-FISHMEAL; Partner: Ratilal Narshi, Ph (resi): 133. Plant: Bara Rd, Mangrol 362225; Ph: 159.

PRASHANT PROTEINS (P) LTD, PB No 155, Ruvapari Rd, Bhavnagar 364001; Ph: 25211, 25422, 23454, Gram: Prashant, Tlx: 0162-238; Mg Dir: P M Gondalia.

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RAVI SAGAR UDYOG, 715/716 GIDC Estate, Veraval 362269; Ph: 21171,20888,20110, Tlx: 163-211 RAVI IN; Mg Partner: O N Sharma, Ph resi: 20371. Branch: 476/1 Matharoo Market, Firozpur Rd, Ludhiana; Ph resi: 39571; Partners: P S Gill & Col I S Mann. Brand Name: Ravi.

SARABHAI M CHEMICALS, Gorwa Rd, Baroda 390007; PO Box No 80, Baroda 390001; Ph: 82821 (5 lines), Gram: Samchem, Tlx: 0175-473; Mktg Controller: N J Kikani. Regd off: Wadi Wadi, Baroda 390007. Regional offices — Ambala: 24 Jain Nagar, -134003; Ph: 56581, Gram: Samchem; Bangalore: 67/53 New Kilari Rd, -560002; Ph: 27652; Bombay: A-Z Industrial Estate, Ganpatrao Kadam Marg, -400013; Ph: 4926305-06, Gram: Chemsam, Tlx: 011-3100; Calcutta: CIT Rd, Scheme L II Entally (2/1/4 Deb Lane), -700014; Ph: 29-6923 & 29-4621, Gram: Chemsam, Tlx: 021-7189; Madras: 123 Angappa Naicken St, G T, -600001; Ph: 31307, 23844, Gram: Chemsam, Tlx: 041-571; New Delhi: 69/5A Shivaji Marg, -110015; Ph: 534188, Gram: Samchem, Tlx: 031-4131.

SHARAD AGRO PRODUCTS, PO Ena, Palsana Tq, Surat Dist; Ph: 33; Partners: Sharad Mehta, Sunita Mehta

SOUMYA MARINE PRODUCTS, New Fisheries Harbour Bhidia Plot, Veraval 362267; Ph: 585 (PP). Sales off: 47/17, East Patel Nagar, New Delhi 110008; Ph: 587334.

SUJATA TRADERS, 9/722 Gandharvafalia, Wadifalia, Surat 395001; Ph: c/o 29684, Gram: Sujata.

SURAT JILLA KHADI GRAMODYOG SAHAKARI SANGH LTD, Post Sardar Baug, Bardoli 394601, Surat Dist.

VEEMA CHEMICALS, Industrial Area, Naroda, Ahmedabad 382330.

VERAVAL FERTILISERS & INDUSTRIES PVT LTD, THE, Bhalka Rd, Veraval 362265, PO Box No 8; Ph: 557, Gram: Fertind. Sales off: Bombay.

VERAVAL MARINE PRODUCTS, Bhidiya Plot, Veraval 362267; Ph off: 119, resi: 846, 411, Gram: Prestige; Partners: Gyanbhai T Bhanusali, Harish Chandra Bathla. Factory: GIDC Estate, Plot No 48, Veraval 362267. Branches: Luchiana (Pb), Panipat (Haryana).

VICAS MARINE ENTERPRISE, 404-406 GIDC Plot, Veraval 362269; Ph off: 798 & 1225, resi: 1027 & 1132, Gram: Mariners.

Haryana

AHUJA BARREL SUPPLY CO, Nai Mandi, Rohtak 124001.

AMICHAND MAKHANLAL, Main Bazar, Gurgaon 122001; Ph: 2536.

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BHARAT STARCH & CHEMICALS LIMITED, PO Yamuna Nagar 135001, Ambala Dist; Ph: 4922, 5204, Gram: Starch. Regd off: Thapar House, 124 Janpath, New Delhi-1.

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DATTATPAYA TRADING CORPN, Keshaw Mahadeo Karandikar Chawl, Patel Pada, near Mission Hospital, Dahanu Rd 401602, Thane Dist; Ph: 660 (PP).

DEONAR ABATTOIR, Municipal Corpn of Greater Bombay, opp Gowandi Rly Station, Deonar, Bombay 400043; Ph: 5519152 Ext 25; Gen Mgr: Dr S N Brahme.

EBRAHIM HAJI JUMA & SONS, Sewri Cross Rd, Sewri, Bombay 400015; Ph: 446791, Gram: Modernfish.

EBRAHIM VALIMOHAMED & CO, Sewri Cross Rd, near Sewri Rly Station, Bombay 400015; Ph: 441404, Gram: Sewrifish.

FARIDI DRY FISH SUPPLIERS, Sewri Cross Rd, Bombay 400015; Ph: 447949, Gram: Faridifish. Branch: Bhidiya Plot, Laxmi Bhuwan, Veraval 362267; Ph: 275.

FAVOURITE FISHERIES & FERTILISERS, Sewri Cross Rd, opp Maruti Temple, Sewri, Bombay 400015; Ph: 447515, Gram: Fishmeal, Parel, Bombay 400015; Factory: Gopal Mistry Compound, Dharavi Cross Lane, Dharavi, Bombay 400017; Ph:473189.

G C GOIL & SONS, 54 Mittal Chambers, Nariman Point, Bombay 400021; Ph off: 2027480, 2023740, 2023610, resi: 8220668, 8227171, Gram: Vegefeeds, Tlx: 11-2079 GCCO IN, 11-5802 GOIL IN; Partners: Gokulchandra Goil, K K Goil, Arun Goil.

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HABIB BROTHERS, Sewri Cross Rd, Bombay 400015; Ph: 445632, Gram: Memcnco; Partners: Ali Mohd, A K Esmail, Esmail Abba, Habib Esmail; Mgr: A Aziz Esmail. Branch: GIDC Plot No 413, Veraval, Gujarat; Ph: 1052.

HAJI ESMAIL HAJI HUSEN & CO, Shop No 1, Arab Bldg, Sewri Cross Rd, near Sewri Rly Station, Bombay 400015; Ph: 8822703, 8822914, 8827679, Gram: Seaproducts; Mg Partner: Haji Esmail Haji Husen.

HANUMAN VITAMIN FOODS PVT LTD, Shreeniketan, 86 A Marine Drive, Bombay 400002; Ph: 298392, Gram: Hanuvita; Mg Partner: N J Agrawal. Plant: Akola Rd, Khamgaon, Dist Buldana.

INDIAN GELATINE & CHEMICALS LTD, 21 Mittal Chambers, 228 Nariman Point, Bombay 400021; Ph: 230364, 231874; Chief Exec: P H Miran.

ISMAIL GALAR & SONS, Sewri Cross Rd, Bombay 400015; Ph: 8828811, Gram:Ashrafish.

JETHALAL MULCHAND BROKER, near Lakshmanji Vyayam Shala, Maskasath, Itwari, Nagpur 440002; Ph: 43436, 42472, 43768 (resi), Gram: Cakebroker; Mg Partner: J M Madhrani.

JHANDUMAL MOHANLAL & CO, 12-A Keshavji Naik Rd, Bombay 400009; Ph: 332403, 332405, Gram: Branshop; R K Kohli. Head off: Delhi.

KABRA AGRO INDUSTRIES PVT LTD, B-55 Mittal Tower, Nariman Point, Bombay 400021;Ph: 225045, 231334; Mg Dir: B D Kabra, Ph resi: 530362. Works: Vill Hathwans, PO Box 9, Pipariya 461775, MP; Ph: 226, 227, Gram: Kabragro; Dir: B K Kabra, Ph resi: 223. Regd off: C-70 Gautam Nagar, Habibganj, Bhopal; Ph: 63344;Commercial Exec: M K Shrivastava.

KALYAN SOLVENT EXTRACTION LIMITED,53 Bajaj Bhawan, 226 Nariman Point,Bombay 400021; Ph: 2124907, 2022087, Gram: Kalyangrup, Tlx: 011-3187 MOON IN; Mg Dir: K C Barjatya; Dir: P K Barjatya. Regd off: 25 Jaora Compound, M Y Rd, Indore 452001, MP; Ph: 7520, Gram: Sandeepco, Tlx: 0735-327 KESI IN. Factory: Amona, Agra-Bombay Rd, Dewas, MP. Brand Name:Kalyan.

KHADI AND VILLAGE INDUSTRIES COMMISSION, Directorate of Leather Industry, Gramodaya, Irla Rd, Vile Parle (West), Bombay 400056; Ph: 571323, Gram: Khadigram, Tlx: 011-4923 KVICOM IN; Dir (Leather): B Majumdar.

KHANDESH EXTRACTIONS (Oil Extraction Department of the Amalgamated Electricity Company Ltd), 17-B Horniman Circle, Bombay 400023, PB No 879; Ph: 294106, 297038, 297044, Gram: Amalbijli, Tlx: 11-5337 DESI IN.

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LAXMICHAND PRAKASHCHAND, Anna Bhuwan (4th Floor), Room No 7, 87-C Broach St, Dana Bunder, Bombay 400009; Ph:327539,333510, 544297 (resi), Gram: Seedcake; Reps: Thawardas Punjabi & Laxmichand.

LIBERTY OIL MILLS PVT LTD, 302 Dalamal House, 206 Nariman Point, Bombay 400021; Ph: 244445, Gram: Copramill, Tlx: 11-6189; Mg Dir: E A Kader, Ph resi:396448; Commodities Mgr: A R Ganj, Ph: 370576.

MAHARASHTRA CATTLE-FEED & POULTRY-FEED MFG CO, 279 Bhat Bazar, Saiya House, Narsi Natha St, 4th Floor, Room No 407, Bombay 400009; Ph: 336462.

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MANSEE CORPORATION, Vimal Udyog Bhavan, 6-A, 2nd Floor, opp Badal-Bijali Cinema, Mahim, Bombay 400016; Ph: 452205; Prop: P B Wakharkar; Sales Mgr: J G Koranne. Branches — Calcutta: Agents for East Zone: D Jayantilal & Company, 33 B R B B Rd, -700001; Ph: 264282, 278167;Pune: 484/4 Mitramandal Colony, Parvati, -411009; Ph: 447020; Mgr: J G Koranne.

NAGRECHA & COMPANY, 12 Chheda Mahal, V P Rd, Mulund, Bombay 400080; Ph: 5615696, 5613776; Partner: Pramod Nagrecha.

NARAINDAS BROTHERS, Jolly Maker Chambers No 2, Room No 26, 2nd Floor, 225 Nariman Point, Bombay 400021; Partner: Balram Ajoomal.

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ONKAR AGENCIES, 2 Madan Niwas, R H B Rd, opp Sampson School, Mulund (West), Bombay 400080; Ph: 5617931, Gram: Vetsfair, Code: BO:000 203; Mg Partner: Harmohan Singh.

PATEL GRINDING INDUSTRIES, Sewri Cross Rd, near Sewri Rly Station, Sewri, Bombay 400015; Ph: 443081, 447280, 447668 (resi), Gram: Fishfair; Chief Exec: Z H Patel; Regl Sales Mgr: I H Patel.

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RAMESHKUMAR DEVKISHAN, Anna Bhuvan, 4th Floor, Room No 7, 87-C Devji Ratanshi Marg, Dana Bunder, Bombay 400009; Ph: 327539, 333510, Gram: Seedcake; Rep: Thawardas Punjabi.

RAVI FISH INDUSTRIES PVT LTD, Nilum Mansion, Lamington Rd, Bombay 400004; Ph: 386534, 353489, 352195, Gram: Ravifish, Tlx: 011-3458. Brand Name: Ravi.

RAYMON GLUES & CHEMICALS, 91-92 Atlanta, 209 Backbay Reclamation, Nariman Point, Bombay 400021; Ph: 235116, 235045, Gram: Wetfarm, Tlx: 011-3148; Partners: N B Patel, R B Patel, M B Patel; Mgr: T N V Subramaniyan.

REAL FEED SUPPLIERS, 108, 2nd Floor, Abhinandan Market, 215/217 Kalbadevi Rd, Bombay 400002; Ph off: 252756, resi: 547692.

SAGAR PRODUCTS, A3, "Tarang", Mogal Lane, Mahim, Bombay 400016; Ph: 463423, 463284. Sales off: 6, Old Fish Section Bldg, M J Phule Market, Bombay 400001; Ph: 395879, Gram: Redtomato; Sales Exec: Ajit N Banavalikar. Factory: Devgad, Ratnagiri Dist; Ph: 63; Factory Mgr: Kishor A Kulkarni.

SALIM ENTERPRISES, Sewri Cross Rd, Bombay 400015; Ph: 8820053, 8820052; Partner: Abdul Sattar V Kasmini, Ph resi: 8827975, 8829348.

SARF MARINE PRODUCTS, Behind Mutton Shop, Gani Seth Compound, Sewri Cross Rd, Bombay 400015; Ph: 447192, Gram: Khastkunwar; Mg Partners: Mohd Rafiq, Abdul Sattar Valimohamed.

SCHOKHI INDUSTRIALS PVT LTD, 143 Jolly Maker Chambers No 2, 14th Floor, 225 Nariman Point, Bombay 400021; Ph: 2021320, 231397, Gram: Utpadan, Tlx: 011-3078; Dirs: N Dass, Nitin N Goel.

SHABBIR TRADING, Sewri Cross Rd, Bombay 400015; Ph: 446026.

SHAH BROKERS, 504 Surat Sadan, Surat St, Bombay 400009; Ph: 345372, Gram: Cottoncake; Mg Partner: Kantibhai Shah.

SHIV TRADING CO, 117 Daryasthan Chambers, 33 Daryasthan St, Bombay 400003; Ph: 869432; Prop: Umarshi G Bhanushali.

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SUNIL & CO, 34 Mohanlal Mansion, 18 L Napoo Rd, Matunga, Bombay 400019; Ph: 473527; Partner: Kantilal K Shah.

SUNNY FEED PRODUCTS, S No 178, Shantinagar, Ulhasnagar 421003; Ph: 136; Dr V K Cilly.

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THAKKAR TRADING COMPANY, 57 Sardar Patel Rd, Bombay 400009; Ph: 331421.

TIMA CHEMICALS, 6B Ajanta Udar, Goregaon Cooperative Housing Society, S V Rd, Goregaon, Bombay 400062; Ph: 690504; Prop: Vijay Kumar. Factory: Plot No 6, Shed W5 3B, Tarapur MIDC, Boiser, Dist Thane. Products: Choline Chloride (50% Powder), Choline Chloride (98% Crystals).

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VALIMOHAMED ABBA & CO, Sewri Cross Rd, Bombay 400015; Ph: 8820053; Partner: A S Kasmani, Ph resi: 8829348.

VERAVAL FERTILISERS & INDUSTRIES PVT LTD, 15 Esaf Manzil, Worli Naka, Bombay 400018; Ph: 894411, Gram: Konfeeds, Tlx: c/o 011-5210 GEOCIN. Regd off & factory: Veraval, Gujarat.

WAGHJI LAKHMIDAS & CO, 82 Khand Bazaar, Bombay 400003; Ph: 322230, Gram: Jaifal.

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AJANTA ENTERPRISERS, Ranihat, Bajrakabati Rd, Cuttack 753001.

EASTERN STORES, Thoria Sahi, PO Mangalbag, Cuttack 753001; Ph: 22641; Prop: C K Pattanaik

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KOSALA ENTERPRISES, B-4 Industrial Estate, Sambalpur 768120; Ph: 1766, Gram: Kosalas; Prop: K M K Murty.

LAXMI STORE, Ispat Market, Shop No 12, Rourkela 769005; Chief Exec: Arun Dash.

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ORISSA OIL INDUSTRIES LTD, Cheruapara, Sambalpur 768001; Ph: 196, Gram: Saloil; Partners: J P Lath, R A Himatsingha. Branch off: 25 Ganesh Chandra Avenue, 4th Floor, Calcutta 700013; Ph: 262510.

PATHARLA SIVALINGAM, Batchuvari St, Berhampur 760006, Ganjam Dist.

R K FISH MEAL INDUSTRY, Sri Ram Nivas, City High School Rd, Berhampur 762002, Dist Ganjam; Ph: 2238, 2825. Factory: Jhattipadar, Dist Ganjam.

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ASIA GLUES & CHEMICALS PVT LTD, 774 Anna Nagar, Madurai 625020; Ph: 44099 & 44355, Gram: Asiaglues.
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CHETTIAR TRADERS, 40 Railway Station Rd, Rameswaram 623526, Ramanathapuram Dist; Ph: 274; Prop: N B Ramaiah Chettiar.
ELPHINSTONE OIL MILLS, 249 Teppam East, Virudhunagar 628002; Ph: 3652.
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MUNSHI TRADING CO, 61 Thathamuthiappan St, Madras 600001; Ph: 26246, Gram: Popmaize; Kuddush.
OM ENGINEERING INDUSTRIES, 21 Prakasa St, T Nagar, Madras 600017; Ph: 444866, 440724, Gram: Limeshell; Mg Partner: A V Sivagnanam.
OM MURUGA TRADERS, 78 Acharappan St, Madras 600001; Ph: 27675; Partner: A R Vishwanath Gupta.

P ARUNACHALA NADAR, Rice Mill, 285 Gandhi Rd, Arni 632301, N Arcot Dist; Ph off: 11, resi: 96, Gram: Brothers.

PREMIER ALFA MEAL INDUSTRIES, 41 Grey Town, Coimbatore 641018; Ph: 26563; Prop: C Thirumalai Swamy.

PREMIER PRODUCTS (P) LTD, 169 Main Rd, Kovilpatti 627701; Ph off: 745, resi: 2295, Gram: Liberty. Brand Name:Premier.

RAJA RAMANIAH & CO, 8 Kondi Chetty St, 1st Floor, PB No 1742, Madras 600001; Ph: 24051, 24057, Gram: Krupa, Tlx: 041-630 RRCO IN; Mg Partners: M Ramaniah, G Venkata Rao.

SARADHA RICE MILLS, Salem Rd, Namakkal 637012; Ph: 2615 (off), 2850 (factory).

SENTHIL TRADERS, Urbuillam, Vennandur 637605, Salem Dist.

SHAH TRADING CORPORATION, 64 Suramangalam Rd, Salem 636001; Ph: 3443, Gram: Jugaljodi, Tlx: 040-223; Partners: Shashikant Shah, Harkishan H Shah. Regional off: 267/72 Narsi Natha St, Anand Deep Chambers, 4th Floor, Bombay 400009; Ph: 322852.

SHANMUGA AGENCIES, Kattupalayam, Chavadipalayam via, Periyar Dist; Prop: V S Veerasamy

SHREE LAKSHMI ENTERPRISES, 7-A Muthusamy St, Arisipalayam, Salem 636009; Ph: 4897 (PP).

SRI BALAJI INDUSTRIES, Bazar St, Sunnambukulam, Gummidipoordi Tq, Chingleput Dist; Mg Partner: Sridharan.

SRI GOVIND DHAL MILLS, 165 Madhavaram High Rd, Madras 600080; Ph: 64474; Mg Partner: Jaya Prakash.

SRI RAM TRADERS, 83 Acharappan St, Madras 600001; Ph: 23056, 23449; Prop: B K Venketesan, Ph resi: 512544.

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TAMILNADU AGRO INDUSTRIES CORPORATION LTD, THE, 'Agro House', Industrial Estate, Guindy, Madras 600032; Ph: 432266, Gram: Taitaitai; Mg Dir: V Karuppan, IAS, Ph: 431301; Chief Offr (Proj): K V Ramachandran, Ph: 432260, 422980 (resi). Branch off: Udumalpet 642126, Coimbatore Dist; Asst Proj Offr: C R Govindasami, Ph: 773.

TAMIL NADU CIVIL SUPPLIES CORPORATION LIMITED (TNCSC), 42 Thambusamy Rd, Kilpauk, Madras 600010, PB No 752; Ph: 666773, Gram: Uravuporul, Tlx: 7521; Chmn & Mg Dir: R Pasupathi, IAS; Jt Mg Dir: K Malaisamy, IAS; Ph: 663750.

TAMIL NADU COOPERATIVE MARKETING FEDERATION LTD, THE, 40-A St Mary's Rd, Madras 600018; Ph: 74903, 76620, Gram: Cosupmark; Asst Mktg Offr: Tanagpandyan.

TAMILNADU FISHERIES DEVELOPMENT CORPORATION LTD, 15 South Borg Rd, T Nagar, Madras 600015; Gen Mgr: A Srinivasan. Fish Meal Plant: PO Mandapam 623518, Kanya Kumari Dist; Dep Mgr Incharge: Dhansekaran.

VELUR RAJA MILLS, 69 Sathy Rd, Erode 638001; Ph: 4236, Gram: Velrajmill; Prop: M Rajagopalan.

VISWAM & CO, 29 Kandappa Chetty St, Madras 600001; Ph: 24951, 21667, 28378 (resi).

YADALAM & COMPANY, 2 Thathamuthiappan St, Madras 600001; Ph: 39015, 24752, Gram: Mahajothi, Tlx: 041-319; Mg Partner: L V Ramaiah, Ph: 442399 & 442473 (resi).

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ASIA GLUE & FERTILIZERS, 32 Madarsa Sadat, Hapur, Dist Ghaziabad; Ph: 2029.

AVADH PROTEINS & CHEMICALS, Abdul Aziz Rd, Akbari Gate Chowk, Lucknow 226001; Ph: 82588; Prop: Salim Ahmed

BEHARI LAL MANNI LAL, 54/20 Canal Rd, Kanpur 208001.

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HARICHAND SHANTI PRASAD, Bazar Chowk, Najibabad 246763; Ph: c/o 105; Yogesh Kumar.

HIMACHAL MINERALS COMPANY, 4-B Raja's Rd, Dehra Dun 248001; Ph: 25108, 26054, Gram Doonchips; Partner: H L Marwah.

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HINDUSTAN BONE MILLS PRIVATE LTD, Post Box 76, Civil Lines, Moradabad; Ph off: 6885, factory: 5918; Mg Dir: Ashok Malhotra.

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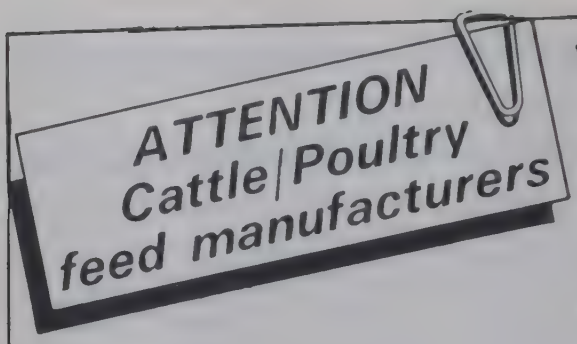
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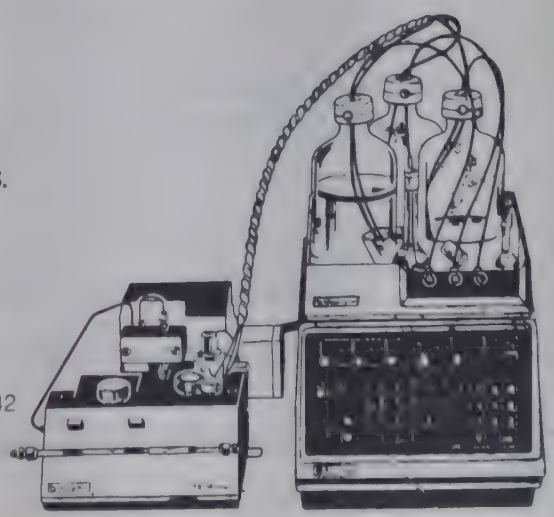
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Praga Sales Corpn (Maharashtra)
Premier Products (P) Ltd (Tamil Nadu)
R K Fish Meal Industry (Orissa)
R M Agencies (Punjab)
Ramkrishna Jagannath Parkar & Co (Maharashtra)
Ramsons Sea Foods (Gujarat)
Ravi Fish Industries Pvt Ltd (Maharashtra)
Ravi Sagar Udyog (Gujarat)
S Shankarappa & Brothers (AP)
Sagar Products (Maharashtra)
Salim Enterprises (Maharashtra)
Sarf Marine Products (Maharashtra)
Schokhi Industrials Pvt Ltd (Maharashtra)
Shabbir Trading (Maharashtra)
Shaheen Minerals (Karnataka)
Sidhi Vinayak Marine Industries (Karnataka)
Sohan Lal & Sons (Delhi)
Sona Poultry Feeds (Punjab)
Soumya Marine Products (Gujarat)
Sulaman Traders (Karnataka)
Sunder Lal Amit Kumar (Delhi)
Suraj Traders (Kerala)
Suruchi Enterprises (MP)
Tamilnadu Fisheries Dev Corpn Ltd (Tamil Nadu)
Valimohamed Abba & Co (Maharashtra)
Veraval Fertilisers & Industries Pvt Ltd (Gujarat & Maharashtra)

Veraval Marine Products (Gujarat, Haryana)
Vicas Marine Enterprises (Gujarat)
West India Bay Fisheries (Karnataka)
Wibs Products (Karnataka)

FOODGRAINS & BY-PRODUCTS
(Brans, husks, chunies, rice polish, maize, jowar, gram, kardi, etc)

Abdul Shukur Sait & Son (Karnataka)
Amritsar Oil & Chemical Mills (Haryana)
Andhra Pradesh State Coop Mktg Fed Ltd(AP)
Ark & Co (Karnataka)
Ashish Trading Industries (Chandigarh)
B C Brokers (Maharashtra)
Ballary Kotrappa & Sons (Karnataka)
Bhagwati Enterprises (Delhi)
Bharat Starch & Chemical Ltd (Haryana)
Coromandel Agro Products & Oils Ltd (AP)
D'Cunha Enterprises (Goa)
Dhanraj Kalantri (AP)
Divya Jyothi Agencies (Karnataka)
Dulichand Shreelal (W Bengal)
Eastern Stores (Orissa)
F K Traders (Pvt) Ltd (W Bengal)
G Venkatesam & Co (Tamil Nadu)
Goodwill Feed Centre (Karnataka)
Hakimee Products (Karnataka)
Harichand Shanti Prasad (UP)
Haryana State Ccoperative Supply & Marketing Federation Ltd, The (Chandigarh)
Hukam Chand Mahabir Prashad (Haryana)
J K Export Industries (Gujarat)
Jain Solvent Plant (Haryana)
Jalluri Nageswara Rao & Co (AP)
Jaswant Singh Jatinder Pal Singh (Punjab)
Jhandu Mal Mohan Lal (Delhi)
K D More Company (W Bengal)
K G Oil & Rice Mills (Tamil Nadu)
Kamadhenu Enterprises (Orissa)
Karnataka Agro-Industries Corpn Ltd (Karnataka)
Karnataka State Agro Corn Products Ltd (Karnataka)
Kartar Singh & Sons (Delhi)
Khan Chand Ainshi Lal (Delhi)
Kosala Enterprises (Orissa)
Krishak Animal Feed Industries (MP)
Lal Chand & Sons (Haryana)
Laxmichand Prakashchand (Maharashtra)
Laxminarayan & Sons (MP)
M Parasasivan (Tamil Nadu)
M P Oil Extraction Pvt Ltd (MP)
MARKFEED Vanaspati & Allied Industries (Punjab)
Mahalakshmi Traders (AP)
Manas Products (Protein) Pvt Ltd (Assam)
Mithinti Pattabhi Ramayya (AP)
Modern Feed Mills (Delhi)
Moosa Traders (Karnataka)
Munshi Trading Co (Tamil Nadu)
Nagrecha & Company (Maharashtra)
Naraindas Brothers (Maharashtra)
Naresh Chand Sanin Kumar (Delhi)
New Delhi Feed Mills (Delhi)
Nitinkumar & Bros (Maharashtra)
P Arunachala Nadar (Tamil Nadu)
Patharla Sivalingam (Orissa)
Prakash Trading Co (Maharashtra)
Protein Food & Silk Waste Co (Karnataka)
R K Rice & General Mills (Punjab)
Ram Niwas Agarwal (Delhi)
Rameshwar Das Suresh Kumar (Haryana)
Ryots Agricultural Produce Cooperative Marketing Society Ltd (Karnataka)
S S Industries (UP)
Saradha Rice Mills (Tamil Nadu)
Sarojini Enterprisers (Orissa)
Schokhi Industrials Pvt Ltd (Maharashtra)
Seth Oil Mills Ltd (Punjab)
Sethia Oil Industries (W Bengal)
Sohan Lal & Sons (Delhi)
Sree Gajanana Rice and Oil Mills Limited (Karnataka)
Sri Govind Dhal Mills (Tamil Nadu)
Sri Ram Traders (Tamil Nadu)
Sujata Traders (Gujarat)
Sulaman Traders (Karnataka)
Sunder Lal Amit Kumar (Delhi)
Tamil Nadu Civil Supplies Corpn Ltd (Tamil Nadu)
Tamil Nadu Coop Mktg Fedn Ltd (Tamil Nadu)
Velur Raja Mills (Tamil Nadu)

GENERAL

A-1 Feeds (AP)
Ahar Kendra (MP)
Agri Kem (AP)
Ajanta Enterprisers (Orissa)
Ajanta Sales Corporation (Maharashtra)
Alfa Agro Ind (I) Pvt Ltd (Tamil Nadu)
Ashoka Feed Stores (Punjab)
Aurora Feed Mills (Punjab)
B M & Brothers (Punjab)
Babcock Agencies (Tamil Nadu)
Badri Pershad Bhagwan Das (Rajasthan)
Balaji Feed Supplements (AP)
Bhagchand Rewa Chand (Rajasthan)
Bharat Bhander (W Bengal)
Bharat Feeds & Fertilizers (UP)
Bharat Poultry Feed Stores (Punjab)
Brico Organizers (Punjab)
Bridhichand Chiranjilal (Bihar)
Central & Western India Chemicals (Maharashtra)
Central India Processors Pvt Ltd (MP)
Chetna Feeds (Karnataka)
Dashmesh Feed Mills (Punjab)
Delux Feed Products Pvt Ltd (Assam)

Dheeraj Industries (AP)
Doaba Poultry Feed Store (Punjab)
Doon Fertilizer & Minerals (UP)
Duggal Feed Centre (Punjab)
Entally Poultry Feed Stores (W Bengal)
Essen Enterprises (AP)
Ezhumalaiyan Traders (Tamil Nadu)
Farmers Feed Corpn (Punjab)
Friends Traders (Punjab)
G V Ramakrishnaiah (Tamil Nadu)
G Venkatesam & Co (Tamil Nadu)
Gopal Company (W Bengal)
Haji Mohamed Husain & Sons (AP)
Happy Feed Service (Punjab)
Hari Hara Traders (AP)
Haryana Poultry Feeds (Haryana)
Hi Lay Foods & Feeds (AP)
J K & Co (AP)
Jagdish Rai Sharma & Co (Karnataka)
Jaya Laxmi Traders (AP)
Kamsun Traders (Punjab)
Kanu Feeds (Gujarat)
Khaja Mia Haji Mohd Hussain Co (AP)
Kisan Traders (AP)
Kripal Traders (Rajasthan)
Krishna Flour Mills (Delhi)
LSP Fats & Feeds (Tamil Nadu)
Lakshman Chemicals (Davangere) Pvt Ltd (Karnataka)
Laxmi Cattle Feed Industries (MP)
Laxmi Store (Orissa)
Laxminarayan & Sons (MP)
Laxmi Poultry Feed Centre (AP)
Ludhiana Feed Mills (Punjab)
Lucky Feed Merchants (AP)
Madras Cattle Feed Mixture Industries (Tamil Nadu)
Mahakali Protein Food & Feed (W Bengal)
Mahalaxmi Feed Mixing Co (AP)
Maharaja Feeds (AP)
Maharashtra Cattle Feed Mfg Co (Maharashtra)
Manas Products (Protein) Pvt Ltd (Assam)
Mod Feed Products (Delhi)
Modern Feeds & Feed Products (AP)
Munshi Trading Co (Tamil Nadu)
Narayani Enterprisers (Orissa)
Neo Feed Mixers (AP)
New Delhi Feed Mills (Delhi)
New Tirumala Giri Traders (AP)
Novodaya Traders (AP)
Pradeep Poultry Feed Centre (AP)
Prem Feed Stores (Punjab)
Premier Alfa Meal Industries (Tamil Nadu)
Punjab State Cooperative Supply & Marketing Federation Ltd, The (Chandigarh)
Quality Traders (Punjab)
R R Traders (AP)
Radha Agro Industries (P) Ltd (Delhi)
Raghupati Traders (AP)
Raj Feed Mills (Haryana)
Raj Feed Mills (Rajasthan)
Rajeev Kumar Deep Kumar (Punjab)
Rajinder Feed Mill (Chandigarh)
Rashmi Farming & Cattle Food Products Pvt Ltd (Gujarat)
Ravi Poultry Feed Store (Punjab)
Real Feed Suppliers (Maharashtra)
Rishi Feed Traders (Delhi)
Sarhand Egg & Feed Store (Punjab)
Senthil Traders (Tamil Nadu)
Shaheen Minerals (Karnataka)
Shiv Poultry Mixed Feed Store (Punjab)
Shree Ambika Fertilizer Co (AP)
Shri Bhagwati General Mills (J & K)
Sri Laxmi Poultry Enterprises (AP)
Sri Rajkamal Animal Feed Agencies (AP)
Sri Ram Krishna Traders (AP)
Srinivasa Traders (AP)
Sulaman Traders (Karnataka)
Sunder Lal Amit Kumar (Delhi)
Suneeth Trading Corpn (Karnataka)
Sunny Feed Products (Maharashtra)
Suresh Traders (Tamil Nadu)
Tripura Cattle Feed Products & Other Industries (Tripura)
Vasu Poultry Feed Centre (AP)
Venkateswara Traders (AP)
Vijaya Durga Poultry Traders (AP)
Vijayalakshmi Traders (AP)
Yarlagadda Poultry (AP)

LIMESTONE, OYSTER SHELL GRIT, CALCITE POWDER, ETC

Abdul Shukur Sait & Son (Karnataka)
Anitha Chemical Industries (Karnataka)
Arun Fish Meal Industries (Tamil Nadu)
Coastal Fisheries (Karnataka)
Coloured Minerals Processing Co(Karnataka)
Dattatraya Trading Corpn (Maharashtra)
Divya Jyothi Agencies (Karnataka)
Essen Enterprises (AP)
Favourite Fisheries & Fertilisers (Maharashtra)
Feeds India (Tamil Nadu)
Himachal Minerals Co (UP)
Jayshri Pulverisers (Gujarat)
K B Grinding Works (UP)
K P Sons (MP)
Kosala Enterprises (Orissa)
M Krishna (Karnataka)
Mangalore Shell Products (Karnataka)
Momin Abu Mohammed & Bros (Karnataka)
Moosa Traders (Karnataka)
Nagrecha & Co (Maharashtra)
Nandyal Agro-Vet Industries Pvt Ltd (AP)
Nitinkumar & Bros (Maharashtra)
Om Engineering Industries (Tamil Nadu)

P Yadaiyah & Bros (AP)
P M Packi & Company (W Bengal)
Patel Grinding Industries (Maharashtra)
Pottabathni Minerals & Chemicals (AP)
Praga Sales Corpn (Maharashtra)
R K Fish Meal Industry (Orissa)
Sarf Marine Products (Maharashtra)
Schokhi Industrials Pvt Ltd (Maharashtra)
Shaheen Minerals (Karnataka)
Shree Lakshmi Enterprises (Tamil Nadu)
Sri Balaji Industries (Tamil Nadu)
Sujata Traders (Gujarat)
Sulaman Traders (Karnataka)
Suraj Traders (Kerala)
Swastik Trading Corporation (Maharashtra)
Veema Chemicals (Gujarat)

MAHUA, NEEM, SUNFLOWER, NIGER, MANGO SEED, ANNATO SEED, ETC

Andhra Oil & Cake Products Ltd (AP)
Andhra Pradesh State Coop Mktg Fed Ltd(AP)
Bramhappa Tavanappanavar Pvt Ltd (Karnataka)
Coromandel Agro Products & Oil Ltd (AP)
Kosala Enterprises (Orissa)
Krishak Animal Feed Industries (MP)
Laxmichand Prakashchand (Maharashtra)
Prasad Trading Company (Karnataka)
Shah Trading Corpn (Tamil Nadu)
Sunder Lal Amit Kumar (Delhi)

MOLASSES

Ahuja Barrel Supply Co (Haryana)
General Molasses Co (P) Ltd (UP)
Madan Gopal Chaman Lal (Punjab)
Raj Kumar & Sons (Delhi)
Schokhi Industrials Pvt Ltd (Maharashtra)
Shah Trading Corpn (Tamil Nadu)
United Molasses Co (UP)

OIL CAKES (MEAL), GUAR GUM (MEAL), EXPELLER PRESSED/SOLVENT EXTRACTED

Abdul Shukur Sait & Sons (Karnataka)
Agarwal Udyog (Delhi)
Amritsar Oil & Chemical Mills (Haryana)
Andhra Feeds Exporters (AP)
Andhra Pradesh State Coop Mktg Fed Ltd(AP)
Asha Corporation (Maharashtra)
Athithan Stores (Tamil Nadu)
Avadh Proteins & Chemicals (UP)
B C Brokers (Maharashtra)
B S Oil Traders (Delhi)
Ballary Kotrappa & Sons (Karnataka)
Bharat Starch & Chemicals Ltd (Haryana)
Bombay Grain Crushing & Spice Mills (Maharashtra)
Bramhappa Tavanappanavar Pvt Ltd (Karnataka)
C Anil Enterprises (Maharashtra)
Devdoot Industries (Gujarat)
Dhanraj Kalantri (AP)
Dibban Lal Bhajan Lal (Haryana)
Dipak Solvent Extraction Industries (Gujarat)
Divya Jyothi Agencies (Karnataka)
Dulichand Shreelal (W Bengal)
Elphinstone Oil Mills (Tamil Nadu)
Farmers Co-op Oilseeds Processing Society Ltd (Karnataka)
G C Goil & Sons (Maharashtra)
Geeta Trading Corpn (Maharashtra)
Gidwaney Bros (W Bengal)
Habib Extractions (Karnataka)
Hanumantha Feed Store (AP)
Hindustan Gum & Chemicals Ltd (Haryana)
Hukam Chand Mahabir Prashad (Haryana)
J K Export Industries (Gujarat)
Jagdish Export Industries (Gujarat)
Jagdish Oilcake Industries (Gujarat)
Jalluri Nageshwara Rao & Co (AP)
Jhandu Mal Mohan Lal (Delhi)
K D More Company (W Bengal)
K N Oil Industries (MP)
Karnataka Agro Industries Corpn Ltd (Karnataka)
Kartar Singh & Sons (Delhi)
Kosala Enterprises (Orissa)
Krishak Animal Feed Industries (MP)
Krishna Extraction Pvt Ltd (Maharashtra)
Krishna Oilcake Industries (Gujarat)
Krishna Oil Extractions Pvt Ltd (MP)
Laxmichand Prakashchand (Maharashtra)
Liberty Oil Mills Pvt Ltd (Maharashtra)
M P Oil Extraction Pvt Ltd (MP)
Mahadeo Shahra & Sons (MP)
Mahant Oil Industries Pvt Ltd (Karnataka)
Mahendra Oilcake Industries Pvt Ltd (Gujarat)
Malwa Vanaspati & Chemical Co Ltd, The(MP)
Mange Ram Om Prakash (Delhi)
Markfed Refined Oil & Allied Industries (Punjab)
Markfed Vanaspati & Allied Industries (Punjab)
Mayur Ginning Factory (Gujarat)
Meenakshi Oil & Protein Extracts Ltd (Karnataka)
Mithinti Pattabhi Ramayya (AP)
Modern Feed Mills (Delhi)
Moosa Traders (Karnataka)
Mukesh Trading Co (Delhi)
Nagrecha & Company (Maharashtra)
Naraindas Brothers (Maharashtra)
Naresh Chand Sanin Kumar (Delhi)
New Dewan Oil Mills (Chandigarh)
Om Prakash Suresh Chandra Devda & Co (AP)
Orissa Oil Industries Ltd (Orissa)
Patharla Sivalingam (Orissa)
Prag Ice & Oil Mills (UP)
Praga Sales Corpn (Maharashtra)

Prasad Trading Company (Karnataka)
Prashant Proteins (P) Ltd (Gujarat)
Premier Extractions Pvt Ltd (MP)
Protein Food and Silk Waste (Karnataka)
R M Agencies (Punjab)
Ram Niwas Agarwal (Delhi)
Rameshkumar Devkishan (Maharashtra)
Rameshwar Das Suresh Kumar (Haryana)
Ravi Vegetable Oil Industries (Karnataka)
Rudra Trading Co (Delhi)
Ryots Agricultural Produce Cooperative Marketing Society Ltd (Karnataka)
Sarda Food Processing & Enterprises Pvt Ltd (Delhi)
Schokhi Industrials Pvt Ltd (Maharashtra)
Sethia Oil Industries (W Bengal)
Shiv Trading Corpn (Maharashtra)
Shree Mansingka Oil Mills Ltd (MP)
Siddaganga Oil Extractions Pvt Ltd (Karnataka)
Sree Gajanana Rice & Oil Mills Limited (Karnataka)
Sujata Traders (Gujarat)
Sulaman Traders (Karnataka)
Sunder Lal Amit Kumar (Delhi)
Tamil Nadu Agro-Industries Corpn Ltd (Tamil Nadu)
Thakkar Trading Company (Maharashtra)
Usha Oil Udyog Ltd (W Bengal)
Veraval Marine Products (Gujarat, Haryana)
Vippy Solvex Products Pvt Ltd (MP)

SALSEED (MEAL)

Andhra Oil & Cake Products Ltd (AP)
Jagmanek Solvent Extraction Plant (MP)
Khandesh Extraction (Maharashtra)
Krishak Animal Feed Industries (MP)
M P Oil Extraction Pvt Ltd (MP)
Sethia Oil Industries (W Bengal)
Sunder Lal Amit Kumar (Delhi)

SILK WORM PUPAE

Protein Food and Silk Waste Co (Karnataka)
Sree Gajanana Rice & Oil Mills Limited (Karnataka)

SOYABEAN MEAL

Alpine Solvex Ltd (MP)
Balaji Proteins Pvt Ltd (MP)
Bhagwati Enterprises (Delhi)
Kabra Agro Industries Pvt Ltd(Maharashtra)
Kalyan Solvent Extraction Ltd(Maharashtra)
Kapil Agro Ltd (MP)
Malwa Proteins & Oils Pvt Ltd (MP)
Malwa Vanaspati & Chemical Co Ltd (MP)
Prestige Feed Mills Pvt Ltd (MP)
Sunder Lal Amit Kumar (Delhi)
Surya Agroils Ltd (MP)

TAPIOCA

Abraham John Vettikatu (Kerala)
Aslam Trading Co (Kerala)
Bombay Grain Crushing & Spice Mills (Maharashtra)
Coastal Fisheries (Karnataka)
Hajee S V Ali Koya (Kerala)
K V Moosa Koya & Co (Kerala)
Mahalakshmi Traders (AP)
Marine Enterprises (Karnataka)
Moosa Traders (Karnataka)
Palliveetil Mammed Koya & Bros (Kerala)
Patharla Sivalingam (Orissa)
Purushottam Gordhan Sait (Kerala)
Shah Trading Corpn (Tamil Nadu)
Suraj Traders (Kerala)
Tapioca Products (Kerala)
Velur Raja Mills (Tamil Nadu)
Waghji Lakhmidas & Co (Maharashtra,Kerala)



SERVICE AND REFERENCE FEED LABORATORY

CENTRAL TRAINING INSTITUTE FOR
POULTRY PRODUCTION AND MANAGEMENT
(Government of India)
HESSARGHATTA, BANGALORE-560088

The following analytical parameters are estimated and reported on nominal cost basis:

1. PROXIMATE PRINCIPLES

(A) All parameters of proximate principles.

(B) Individual proximate principles:

(a) Moisture
(b) Ether Extract
(c) Crude Fibre
(d) Crude Protein
(e) Total Ash

(C) Acid Insoluble Ash

2. MINERALS

(a) All amino acids except tryptophan
(b) Tryptophan (by colorimetric method)
(c) Methionine (by colorimetric method)

3. METABOLIZABLE ENERGY (by chemical assay)

4. VITAMINS

(a) Vitamin 'A'

5. TOXIC PRINCIPLES

(a) Aflatoxins
(b) Tannin
(c) Urea
(d) Mowrin (Qualitative)
(e) Hydrocyanic Acid

6. MISCELLANEOUS

(a) Peroxide Value
(b) True Protein
(c) Water Soluble Protein
(d) Non-Protein Nitrogen
(e) Acid-detergent Fibre (ADF)
(f) Neutral-detergent Fibre (NDF)
(g) Lignin
(h) Soya Meal Quality by Dye Absorption

Interested parties are requested to contact the Director for specific charges and other details.

Feed Analytical Laboratories

Listed below are laboratories where feed can be analysed. These facilities are also available at the State Departments of Animal Husbandry & Veterinary Services as well as agricultural universities. Recently, regional feed analytical labs have been set up by the Government of India, as quality control measure.

Northern Region

ALLAHABAD AGRICULTURAL INSTITUTE, Allahabad University, PO Agricultural Institute, Allahabad 211007; Ph: 7441, Gram: Agriinst.Dept of AH;Head:O P Agarwala.

ANALYTICAL TESTING SERVICES PVT LTD, Dr Jha Marg, Okhla, New Delhi 110020; Ph: 633567, Gram: Testlab; Mg Dir: Parvinder Singh; Quality Assurance Mgr: Santosh Yellore.

BANARAS HINDU UNIVERSITY, Inst of Agril Scs, Dept of Anim Sc, Varanasi 221005; Ph: 54291 Ext 488 & 489, Gram: Hindvarsity; Head: Prof N N Pandita.

CENTRAL AVIAN RESEARCH INSTITUTE (CARI), Izatnagar 243122, UP; Ph: 74332, 74230, 74095, Gram: Poultry Vetex, Tlx: 0577-206 CARI IN; Dir: Dr B Panda; Head, Dept of Avian Nutrition & Feed Technology: Dr V R Sadagopan.

CHANDRA SHEKHAR AZAD UNIVERSITY OF AGRICULTURE & TECHNOLOGY, Kanpur 208002; Ph: 44466; Dept of AH & Dairying; Head: Dr N S Kushwaha; Associate Prof of Poul Sc & Meat Technology: Dr H B Dwivedi.

COLLEGE OF ANIMAL SCIENCES, Haryana Agricultural University, Hissar 125004; Ph: 4079; Dept of Anim Feed Technology; Head: Dr I S Yadava, Ph: 3721 Ext 241.

COLLEGE OF VETERINARY SCIENCE & ANIMAL HUSBANDRY, C S Azad Univ of Agri & Technology, Mathura Campus, Mathura 281002; Ph: 148 (Dean); Dept of Nutrition; Prof & Head: Dr C S Barsyal, Ph: 1341.

COLLEGE OF VETERINARY & ANIMAL SCIENCES, Mohan Lal Sukhadia Univ, Bikaner; Ph: 178, Gram: Rajvetcol; Dept of Livestock Production and Management, Poul Sc Section; Head: Dr Balbir Singh.

COLLEGE OF VETERINARY SCIENCE & ANIMAL HUSBANDRY, Jawaharlal Nehru Krishi Vishwa Vidyalaya, South Civil Lines, Jabalpur 482001; Ph: 26330, Gram: Vetcol. Dept of Anim Nutrition & Food Technology; Prof & Head: Dr S P Netke.

COLLEGE OF VETERINARY SCIENCES & ANIMAL HUSBANDRY, Mhow 453441; Ph: 222/240. Dept of Nutrition: Dr M U Bhaid.

DELHI TEST HOUSE, Old Rationing Office Bldg, 9/7 Shakti Nagar, Delhi 110007; Ph: 7125509, 7117327; Partners: M C Goel & G D Goel, Ph: 2518354 & 230078 (resi).

DEPARTMENT OF EXTENSION EDUCATION, Haryana Agril Univ, Hissar 125004; Ph: 3880/2511; Assoc Prof Extn Education: Dr R K Sharma.

G B PANT UNIVERSITY OF AGRICULTURE & TECHNOLOGY, Pantnagar 263145; Coll of Agri, Anim Sc Dept; Dr K S Singh, Associate Prof, Poul Nutrition.

GOVT OF M P POULTRY FARM, M A C T Rd, Bhopal 462003; Ph: 61785 (PP); Asst Dir Vet Services (Feed Analysis): Dr A N Gajraj Mudaliar.

GOVT OF PUNJAB FEED ANALYTICAL LABORATORY, Govt Poul Farm, Lado Wali Rd, Jalandhar; Poul Nutritionist: Dr Darshan Singh Bhatia, Asst Dir (AH).

GOVT OF RAJASTHAN; Poultry Disease Diagnostic-cum-Feed Analytical Laboratories — Ahmer: Ph: 20447; Offr Incharge: Dr Brij Shukla; Jaipur: Ph: 73237; Dr S Das; Jodhpur: Ph: 21241; Dr K C Mehta; Kota: Ph: 4965; Dr B L Sharma; Udaipur: Ph: 5601; Dr N L Bhatnagar.

GOVT OF UP, Central Poultry Farm, Chak Ganjaria, PO Bakkas, Lucknow 226007; Ph: 52643; Res Offr: Dr B K Gupta.

LIVESTOCK FIELD INVESTIGATION STATION, Govt of Rajasthan, Bassi 303001, Jaipur Dist; Offr-in-Charge: Dr A K Purohit; Animal Nutritionist: Dr S R Maheswari.

PROGRESSIVE POULTRY FARMERS ASSOCIATION, SCF 9/10, Sector 19-C, Chandigarh

160019; Ph: 20208; Mgr: B D Garg.

PUNJAB AGRICULTURAL UNIVERSITY, Ludhiana 141004; Ph: 22960, Gram: Agrivarsity; Dept of Anim Sc;Head:Dr J S Ichhponani.

REGIONAL FEED ANALYTICAL LABORATORY, GOI, CFBF Campus, Industrial Area, Chandigarh 160002; Ph: 41491, 24461; Dir: Dr Harpal Singh.

SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH, 19 University Rd, Delhi 110007; Ph: 2528107, 2521267; Mgr, Shri Ram Test House: N S Birdie. Branch: 19 Sankey Rd, Bangalore 560020; Ph:365195.

Western Region

ALTA LABORATORIES PRIVATE LTD, Alta Bhavan, Bapat Marg, Bombay 400028; Ph: 4227441, 4221504; Dr J S Chavan, J R Dhote, R B Donde, S S Kelkar.

ANIMAL NUTRITIONAL RESEARCH LABORATORY, Aarey Colony, Bombay 400065; Dep Dir of AH(Quality Control):Dr V E Nikumbh.

BOMBAY VETERINARY COLLEGE, Konkan Krishi Vidyapeeth, Parel, Bombay 400012; Ph: 442793, 441180, Gram: Bovet. Dept of Anim Nutrition, Anatomy & Physiology: Prof & Head: Dr B A Kulkarni; Prof of Anim Nutrition: Dr P M Puntambekar.

CHEM-MED ANALYTICAL LABORATORIES (CMA), 5-6 Kakad Estate, Seaface Rd, Worli, Bombay 400018; Ph: 4937942; Mg Partner: J L Sipahimalani.

DECCAN POULTRY FARM ANALYTICAL LABORATORY, Bombay-Poona Rd, Vadgaon (Maval)412106, Pune Dist; Partner: Moiz H Tapia, Ph: 438 (Talegaon Dhabade).

GEO-CHEM LABORATORIES (P) LTD, 294 Shahid Bhagat Singh Rd, Bombay 400001; Ph: 263153, 267709, Gram: Geochemsup, Tlx: 5210; Dir: Dinesh Bahl. Branches: Bellary, Bhavnagar, Cochin, Goa, Jamnagar, Kakinada, Kandla, New Delhi, Rajkot, Veraval.

GOVT OF GUJARAT, Poultry Feed Testing Laboratory, Vet Coll Compound, Anand 388001, Kheda Dist; Ph: 3307; Poul Nutrition Offr: P C Shukla.

GOVT OF MAHARASHTRA FEED ANALYTICAL LABORATORY, c/o Wool Research Centre, Sheep Breeding Farm, Gokhalenagar, Pune 411016; Ph: 54862.

GUJARAT AGRICULTURAL UNIVERSITY, Anand Campus, Anand 388110, Dist Kheda. Dept of Animal Nutrition, Research Scientist & Head: Dr P C Shukla.

ITALAB PRIVATE LIMITED, Meher House, 15 Cawasji Patel St, Bombay 400001; Ph: 253882, Gram: Italabo; Chief Exec: J P Patel. Branches: Bellary, Calcutta, Madras, Visakhapatnam.

J B BODA MARINE & GENERAL SURVEY AGENCIES PVT LTD, Maker Bhavan No 1, 1 Sir Vithaldas Thackersey Marg, Bombay 400020; Ph: 295020, 295214, 295899, 295118, Gram: Earnest, Tlx: 011-2927, 011-4125, 011-5819 A/B JBCO IN; Chief Execs: Capt V V Kulkarni, Capt Anil Dhawan.

KIRLOSKAR CONSULTANTS LIMITED, 917/19-A, Shivajinagar, Pune 411004; Ph: 56495, 56496; Consultant, Lab Div: I S Kirad.

MAC LABORATORIES PVT LTD, Great Social Bldg, Sir P M Rd, Bombay 400001; Ph: 253301. Factory: opp Vidya Vihar Station, Ghatkopar, Bombay 400077; Ph: 583291.

NIKASU LAB, 41-47 Eastern Chambers, 128-A Poona St, Dana Bunder, Bombay 400009; Ph off: 861830, 864970, Gram: NiKaSu, Chinch Bunder; Mg Partner: J M Shah, Ph: 294947 (resi).

PEST CONTROL (INDIA) PRIVATE LTD, Disinfection & Sterilization Div, Acme Industrial Estate, 1st Floor, Bunder Rd, Sewri Bombay 400015; Ph: 8826970-71; Head: B S Dhurandhar.

POST GRADUATE INSTITUTE, Poultry Research Centre, Punjabrao Krishi Vidyapeeth, Akola; Ph: 2276, 2278/22, Gram: University. Dept of Anim Genetics & Breeding, Ext & Mgmt; Prof & Head: Dr R T Desai.

REGIONAL FEED ANALYTICAL LABORATORY, Govt of India, c/o Central Poultry Breeding Farm, Aarey Milk Colony, Bombay 400065.

SGS INDIA PRIVATE LIMITED, SGS House, Nauroji Furdoomji Rd, Colaba, Bombay 400039; PO Box No 508, Bombay 400001;Ph:2025253, 2025183, 2029356, 2029157, 2025228, Gram: Supervise, Tlx: 11-6131 SGS IN, 11-2126 GSC IN; National Chief Exec: S Subramaniam; Dir: S M Jamkhindikar; Mgr, Agril Div: Capt V K Bhardwaj; Mgr, Operations Div: D N Pushkarna; Mgr, Tech Div:C Ramadasan. Regd off: 35 Murzban Rd, Bombay 400001; Ph: 269157. Laboratory: 405 Kakad Chamber, 4th Floor, Dr Annie Besant Rd, Bombay 400018; Ph: 8827078; Chief Chemist: S S Mungekar. Branches -- Hospet: Mruthunjaya Nagar, 15th Ward, Dam Rd,-583203, Karnataka; Ph: 8533, Gram: Supervise; Jamnagar: Opp Town Hall, 1st Floor, -361001; Ph: 77766, 77767, Gram: Supervise, Tlx: 491-233 SGS IN; Madras: 304-305 Anna Salai, Teynampet, -600018; Ph: 451427, 451535, 453083, 453084, Gram: Suppervise, Tlx: 41-6053 SGS IN; Vasco de Gama: Joshi Bldg, 4th Floor, Rua Francisco Luis Gomes, PO Box 101,-403802,

Goa; Ph: 2328, 3428, Gram: Supervise, Tlx: 191-286 GSC IN; Visakhapatnam: 26-26-24, 175 feet, Harbour Approach Rd, -530001; Ph: 66964, Gram: Supervise, Tlx: 495-290 SGS IN.

UNIVERSAL RESEARCH & ANALYTICAL LABORATORIES (URALAB), Aman Chambers, 7th Floor, 113 New Queen's Rd, Bombay 400004; Ph: 355776. Branch: 194-A Caiwadi, Girgaum, Bombay 400004; Ph: 384777.

Southern Region

AGRICULTURAL COLLEGE & RESEARCH INSTITUTE, Tamil Nadu Agril Univ, Coimbatore 641003; Ph: 35461, Gram: Farmvar; Dept of AH, Faculty of Vet & Anim Scs.

ANDHRA PRADESH STATE MEAT & POULTRY DEVELOPMENT CORPORATION LIMITED (MAPDEC), Shantinagar, Hyderabad 500028; Ph: 36681, 59104. Feed Analytical Laboratory: Saroornagar (Hyderabad) Farm; Ph: 59104; Offr-in-Charge: Dr J Meghraj.

BALAJI FOODS & FEEDS PVT LTD, Vill Turkayamjal, Post Mangalpalli, Hyderabad 501510; Ph: 59244 & Turkayamjal 34, 91 & 92, Gram: Balfeeds, Tlx: 015-458; Dir: C Jagapati Rao.

CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, Cheluvamba Mansion, Mysore 570013; Gram: Foodsearch, Discipline of Animal Products Technology; Ph off:22718 (49); Area Co-ordinator & Head:Dr M A Haleem.

CENTRAL TRAINING INSTITUTE FOR POULTRY PRODUCTION AND MANAGEMENT (CTIPPM), Govt of India, Hessarghatta, Bangalore 560088; Ph: 26 (HGT); Dir: Dr M R Choudary; Mgmt Specialist: Dr A Mitra, Ph: 40 (HGT). Following Analytical Parameters are estimated and reported on nominal cost: (a) Proximate principles; (b) Minerals; (c) Metabolizable energy (by chemical assay); (d) Amino acids; (e) Vitamin A; (f) Toxic principles; and (g) other miscellaneous analysis. Special feature: Amino acid analyser.

DEEJAY FARM, St Patrick's Complex, 3rd Floor, Brigade Rd, Bangalore 560025; Ph: 562738, Gram: Babcock; Sr Mgr, Poul Ops: Keith J Rosario, Dr James Gnanaolivu. Laboratory: 6th Mile Bagalur, Vadarapalaya, Banaswadi PO, Bangalore 560043; Ph: 55367; Head: D Ram Prasad.

ESSEN & CO, 132 Linghi Chetty St, II Floor, Madras 600001; Ph: 24637. Lab: 6, III Main Rd, Indiranagar, Madras 600020; Ph: 411756, 432943 (Mgr, Res).

ESSEN LABORATORIES, Peddibhotlavari St, Governor Pet, Vijayawada 520002; Ph: 63201 (PP), Gram: c/o Essen Feeds; Prop: P Satyanarayana.

FERRADO LABORATORIES, Ganjan St, Kakinada 533001; Ph: 3019, Gram: Fels; Mg Partner: B S N Murthi.

GOVT OF KERALA, Central Hatchery Complex, Feed Analytical Laboratory, Angadical South PO, Chengannur 689122, Alleppey Dist, Kerala; Ph: 277; Incharge: V Sreedharan Nair.

ITALAB PVT LTD, Mohan Mansion, 149 Govindappa Naicker St, Madras 600001; Ph: 31479. Other Offices — Bellary: 19/37 Ganesh Temple St, Cowl Bazar; Visakhapatnam: 20/119 Beach Rd. Regd off:Bombay.

KERALA AGRICULTURAL UNIVERSITY, Mannuthy 680651, Trichur Dist; Ph: 25237; All India Coordinated Research Project on Poultry Breeding, Head: Dr A K K Unni.

MADRAS VETERINARY COLLEGE, Vepery, Madras 600007; Ph: 31506, Gram: Vetdean; Dean: Dr P Kothandaraman; Dept of Poul Sc; Prof & Head: Dr I Alfred Jaya Prasad.

MIN MET LAB, 41, X Main Rd, near 14th Cross, Malleswaram PO, Bangalore 560003; Ph: 33001; Dir: T K S Iyengar.

SGS INDIA PRIVATE LIMITED, 304-305 Anna Salai, Teynampet, Madras 600018; Ph: 451427, 453083, Gram: Supervise, Tlx: 041-6053. Head off: Bombay. Branch off/ Representatives — Bangalore: Lavelle Heights, 4/1 Lavelle Rd, -560001; Cochin: 5th Cross Rd, Willingdon Island,-682003; Ph: 6267-8, Gram: Supervise, Tlx: 0885-212; Hospet: Mruthunjaya Nagar, 15th Ward, T B Dam Rd, -583203; Ph: 8533; Kakinada: Foreshore Rd, -533001; Ph: 5641, Gram: Supervise, Tlx: 0491-233; Mangalore: Padil Cross Rd, PO Kulshekar, -575005; Ph: 24415-7, Gram: Supervise, Tlx: 0842-274; Tuticorin: 40 Beach Rd, -628001; Ph: 22125, 20266, 22356, Gram: Supervise, Tlx: 044-227; Visakhapatnam: 26-26-24, 175 feet, Harbour Approach Rd, -530001; Ph: 66964, Gram: Supervise, Tlx: 0495-290.

SKM'S ENERGY ANIMAL FEEDS PRIVATE LIMITED, Chavadipalayam Pudur Rd, Nanjaiuthukuli, Modakkurichi 638104, Dist Periyar, Tamil Nadu; Ph: 2663 (Modakkurichi), 49 & 63 (Nathagoundanpalayam), Gram: Poultry; Mg Dir: S K Mylsamy Gounder.

TAPCO FEED ANALYTICAL LABORATORY, c/o Feed Mixing Centre, Nandanam, Madras 600035; Offr Incharge: Dr B Gopal Koushik.

(Continued on page 427)



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Pharmaceuticals & Feed Additives

This list, arranged alphabetically, covers producers of pharmaceuticals, including feed supplements, mineral mixtures and allied products. Brand names of products are also indicated.

AGROMORE LIMITED, Mysore Rd, Bangalore 560026; Ph: 603624, Gram: Agromor, Tlx: 0845-334; Mgr, Agrochemicals Div: Dr B S Shetty. Brand Names: Ratobar, Ratafin Concentrate (rodenticides).

AGROVET INDUSTRIES, 8-P Industrial Area, Kokar, Ranchi; Ph: 24947, Gram: Agrovet; Mg Partner: Dr R N Singh.

AGVET INDUSTRIES, 14-41/1 Prashanti Nagar, Uppal, Hyderabad 500039; Ph: 851017, Gram: Agvet, Secunderabad; Prop: Dr Y K Rao, Ph: 72247. Distributors: Nutrichem Industries, Hyderabad. Brand Names: Ampivet, Amprocox, Be Ce Ke, Bicox, Coxyban, Ccxymix, Erythrin, Livton, Micron-P, Nematin, Nitrovin, Nutrimix, Nutrimix-Spl, Nutrimix-Spl with K, Nutrivet, Pick Up, Piperazine, Syntic, Tetravet, Thearsol, Vitramin for Layers, Vitramin-C, Vitramin-N, Vitramin-N Spl, Zincin, Zoltin-50, Zoltin-200.

AKELVI DRUGS & PHARMACEUTICALS, 16-10-27/105/27 Malakpet, Municipal Colony, Hyderabad 500036; Ph: 56159, Grams: Akelvi; Partner: Syed Qutbuddin. Brand Names: Magnamycin, Hycalvit, Aminoplex, Eggmatic, Parex, Parasol, Electrobex.

ALARSIN, Pharmaceutical Div, Oricon House, 4th Floor, 12 K Dubash Marg, Fort, Bombay 400023; PB No 14, GPO, Bombay 400001; Ph: 243058, 243569, Gram: Alarsin; Mg Dir: K V Patel. Brand Name: Leptaden (Vet).

ALKEM LABORATORIES PRIVATE LIMITED, Agrovet Div, 702-A Poonam Chambers, Dr Annie Besant Rd, Worli, PB No 16558, Bombay 400018; Ph: 4927701, 4920042, 4927490, Gram: Alkemlab; Mg Dir: Samprada Singh, Ph: 4226692 (resi); Dir: B N Singh; Mktg Mgr: S M Godbole.

ALMELO LABORATORIES PVT LTD, Plot Nos A-38 & 39, Road No 7, IDA, Kukatpally, Hyderabad 500037; Ph: 262318; Dirs: M R K Rao, Dr T G Surendranath, T S Prasad. Product: Furazolidone.

ALVED PHARMACEUTICALS (PVT) LTD, No 5 Chandrabagh Avenue, Dr Radhakrishnan Rd, Madras 600004; Ph: 849449, Gram: Alved; Mg Dir: Dr Anser Md Salahuddin; Dir (Sales): Dr S M Shoukuthullah; Dir (Mktg): Dr N Gopinath Nair; Area Sales Exec: Dr I Ajmal Shah; Mktg Mgr (North Zone): Dr A Shabuddin, 41 East Patel Nagar, New Delhi 110008. Branch: 21, S B H Colony, Srinivasa Nilayam, Vijayawada 520008. Associates -- Alved Pharma, 36 B B Naidu St, Madras 600005; & Alved Products, 30 Nainiappa Maistry St, Madras 600014. Brand Names: Alviblend-50, Alviblend-100, Bactrisol, Coxysol-AK, Ccxysol-K, Furazolidone, Helmonil, Niclex Dispersible Powder, Niclex Tablet, Nitromin, Nitromin Plus.

AN-CARE, 301 Chumchum, 82/1E Saraswati Rd, Santacruz (West), Bombay 400054; Ph: 539330; Chief Exec: Vasant Patel. Products: Tetran (Soluble powder), Alfa Zinc Bacitracin, P U 100.

ANGLO-FRENCH DRUG CO (EASTERN) LIMITED, THE, 46/47 Parekh Corpn Bldg, Behind Mahatma Phule Technical School, Bhoiwada, Patel, Bombay 400012; Mg Dir: U G Patel. Works: Bangalore. Brand Name: Beplex.

AR-EX LABORATORIES PVT LTD, Botawala Bldg, 21 Sitaladevi Temple Rd, Mahim, Bombay 400016; Ph:453576, 457685, Gram: Moloptic; Mg Dir: N V Gunjikar. Brand Names: Polmix-B, L, Dimdim, Fertivet.

ARIES AGRO-VET INDUSTRIES PVT LTD, Aries House, 24 Deonar, Govandi (East), PB No 1, Bombay 400043; Ph: 5519506, 5519575, Gram: Ariesagro; Mg Dir: T B Mirchandani; Exec Dir: Mrs Bala Mirchandani; Dir: Dr Jimmy Mirchandani; Chief Controller: Rajoo Hariharan. Branches -- Bangalore: Kadirenhalli Vill, Uttarahalli, Hobli S Tal; Ph: 350275, Gram: Ariesagro; Controller (Admn): R Krishna; Coimbatore: 227-227/1 Pollachi Rd.

See also LATE ADDITIONS at the end of the listing

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-641021; Ph: 34999; Hyderabad: 98 Coop Industrial Estate, Balanagar, -500037; Ph: 262038; Controller (Mktg): Dr S G Dastagir; Kanpur: 64-A Udyognagar, -208002; Ph: 20866. Products & Brand Names: Aries Antafla, Aries Antox, Aries Aquachlo, Aries Bacitiz-10, Aries Flavofeeds, Aries Formula 100, Aries Gold-N-Glow, Aries Lysomix, Aries mm with/without salt, Aries Methiomix, Aries Poultin 200, Aries Poultrifuran, Aries Poultrisol, Aries Prot-O-Liv, Aries Tracemin, Aries DOT.

ARIES EAST-WEST NUTRIENTS PVT LTD, No 3 Agadhi Industrial Estate, Marol, Andheri East, Bombay 400059. Product:Dot.

ARIES MARKETING PVT LTD, Aries House, 24 Deonar, Govandi (East), PB No 1, Bombay 400043; Ph: 5519506, 5519575,Gram: Ariesagro; Mg Dir: Dr Jimmy Mirchandani. Branches — Coimbatore:227-227/1 Pollachi Rd, PB No 4405, Industrial Estate PO, -641021; Ph: 34999, Gram: Ariesagro; Hyderabad: 98 Coop Industrial Estate, Balanagar, -500037; Ph: 262038, Gram: Agromin.

AVET CHEMICALS PVT LTD, 7 Green Park, Jalandhar 144001; Ph: 2696, 2230, Gram: Avet; Mg Dir: Dr V S Abrol. Branch: Katpally, Hyderabad 500028; Ph: 224417, Gram: Avet; Mgr: O P Malik. Brand Names: Avet MM, Furadon 200.

AVIPHARMA, 351-353, B N Pai Marg, Bombay 400010; Ph: 866950, 8510502; Mg Partner: Avinash Rangnekar, Ph (resi): 890419. Products: Coccidiostats, mineral mixtures, vitamin premixes, growth promoters.

BAAL GOPAL AGRO-VET & CHEMICAL INDUSTRIES PRIVATE LIMITED, 41 New Industrial Estate, Jagatpur, Cuttack 754021; Ph: 25373; Mg Dir: Rahas Behari Mohanty; Hon Adviser: Dr N C Panda, Ph: 52769 Ext 54. Regd Off: Santa Sahi, Cuttack 753001. Branch: c/o Jaiswal Traders and Chemicals, 39-A Armenian St, Calcutta 700001; Ph: 321666; Business Controller: K N Jaiswal. Brand Names: Ayurvet, Nutrimin.

BASF INDIA LIMITED, Maybaker House, Sudam Kalu Ahire Marg, PB No 19108, Bombay 400025; Ph: 4930703, Gram: Basfindia, Tlx: 11-6223 BASF IN; Dir, Chemicals: H E Kizilbash; Mktg Mgr, Chemicals: J Salpekar. Branches — Ahmedabad: Karaka Bldg No 1, Ashram Rd, Nawrangpura, -380009; Ph: 77074; Calcutta: 13-A Govt Place East, -700069; Ph: 238516-7, 230854; Madras: Garuda Bldg, 46 Cathedral Rd, -600086; Ph: 83562; New Delhi: 210-212, New Delhi House, 27 Barakhamba Rd, -110001; Ph: 3313110, 3313119. Factory: Plot No 12, Trans-Thana Creek Area, Turbhe, Thana-Belapur Rd, Thana 400613; Ph: Vashi/8260, 8268, 8570, Tlx: 11-4464. Brand Names: Basfin, Lucantin CX, Luprosil, Lutavit.

BALAJI FOODS AND FEEDS PVT LTD,Turkayamjal Vill, Post Mangalpalli,Hyderabad 501510; Ph: 59244, Turkayamjal: 34, 91, 92,Gram: Balfeeds, Tlx: 015-458. Administrative Off: 4-1-1233 Bogulkunta, Subhodaya Apartments, 3rd floor-D, Hyderabad 500001; Dir: C Jagapati Rao; Nutritionist: Dr R D Brahmashetriya; Mgr: A V Sharma. Brand Names: Bafcon, Bafmin.

BALLOUN PHARMACEUTICALS, Bharat Illam, R R C 9, Thirunagar, Madurai 625006, Tamil Nadu; Ph: 8114; Prop: Dr D V Subhaschandran. Factory: No 14 SIDCO Estate, Kappalur, Madurai 625006.

BHANDARI HOMOEPATHIC LABORATORIES, D L F Industrial Estate No 1, Mile 14, Delhi-Mathura Rd, PO Amar Nagar, Faridabad 121003, Haryana; Ph: 273958 (Delhi), Gram: Homoeopathy, Delhi; Partner: R M Bhandari.

BHARAT PRODUCTS, Rajapur 416702, Ratnagiri Dist, Maharashtra; Prop: R G Bhatkar. Brand Name: Tarav.

BHARTIYA BOOTEE BHAWAN (REGD), 21 Mangal Nagar, Saharanpur 247001, UP; Ph: 4392, Gram: Herminsa; Mg Partners: S K Agarwala, A K Agarwala; Financial Controller: P C Agarwala. Branch: Goriatoli, Near Chiraiyatar Bridge, PB No 18, Patna 800001; Ph: 24865, Gram: Herminsa. Brand Names: Diadisco, Hepacin,Herminsa, Krimos.

BHARATIYA PHARMACEUTICALS, 8-A Central Market (Pushpa Market), Lajpat Nagar, New Delhi 110024; Ph: 623865; Chief Exec: Dr R K Bhartiya. Factory: Z-34 Okhla Industrial Estate, Phase II, New Delhi. Product: Homeopathic Medicines.

BHASKER BIO-INDUSTRIES, Industrial Estate, Gokul Rd, Hubli 580030, Karnataka; Ph: 3144. Product: Mineral mixture. Brand Name: Shelly Eggs.

BLUE CROSS FARMA, 16-2-147/3 New Malalpet, Hyderabad 500036; Ph: 52788, Gram:Bluecross; Mg Dir: Dr A D K Pani, Ph:51677 (resi). Brand Names: Dotci, Galibid Chicks, growers, layers, breeders & broilers formulae, Galinex breeders & broilers formulae, Galisol, Galisol-A, Galisol-C.

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Kamani Marg, PB No 680, Bombay 400038; Ph: 266981/5, Gram: Drugboots, Tlx:011-3842; Mgr (Corporate Dev): S B Khanolkar. Brand Names: Bio-Mindif, Mindif for Poultry (with salt and salt free), Safersol.

CADILA VETERINARY, 371-372 Isanpur,Ahmedabad 382443; Ph: 54106, Gram: Cadila; Partners: I A Modi & Ramanbhai Patel; Mktg Mgr: Dr H C Kakkad; Asst Mktg Mgr: Dr M M Kulkarni; Product Mgr: Dr Arun Atrey.Brand Name: Avivita, Cadiplex-C, Cadisol, Cal-C-Rubra, Vitatone, Wormin.

CHEMET, Taj Bldg, 1st Floor, 210 Dr D N Rd, Fort, PB No 195, Bombay 400001; Ph: 263803-07, Gram: Deguchem, Tlx: 011-3229 DGKM IN, 011-4631 DGKM IN. Branch Offices -- Calcutta: Sharma House, 3rd Floor, 1/2 Lord Sinha Rd, -700071; Ph: 447306, 432051, Gram: Deguchem, Tlx: 021-3325 DGKM IN; Delhi: 214 Hans Bhavan, Wing No 1, Bahadurshah Zafar Marg, -110002; Ph: 3311373, 3319791, 3319787, Gram: Deguchem, Tlx: 031-3821 DGKM IN; Madras: 10 Kondi Chetty St, 1st Floor, PB No 1709, -600001; Ph: 22447, 27617, Gram: Deguchem, Tlx: 041-7554 DGKM IN.

CI-CHEM INDUSTRIES, 1110 Subhas Rd, Jabalpur 482002; Ph: 24028, Gram: Biosoft; Partner: A K Gupta, Ph (resi): 26112, 28112. Products: Mineral mixtures and veterinary medicines.

CLOVER LABORATORIES, 261 S V Rd, Bandra, Bombay 400050; Ph: 6427202. Factory: Bombay-Poona Rd, Vadgaon (Maval) 412106, Dist Poona; Ph: 438 (Ex TGN). Brand Name: Clover.

CYANAMID INDIA LIMITED, Nyloc House, 254-D2 Dr Annie Besant Rd, Worli, PB No 9109, Bombay 400025; Ph: 4225211, Gram: Cyanamid, Tlx: 011-71162; Dir, Agril Products: C D Sipahimalani; Sales Mgr, Anim Products: Dr Asim Banerjee. Regional Offices -- Bombay: 'The International', 16 Maharshi Karve Marg, PB No 11008, -400020; Ph: 291144, Gram: Leadersales; Calcutta: Om Credit Corpn Bldg, P-32 Transport Depot Rd, -700088; Ph: 454134, Gram: Cyanamid; Ghaziabad: Indra Udyog Bhawan, 58 Anand Industrial Estate, Mohan Nagar, G T Rd, -201007; Ph: 866429; Hyderabad: C-14 Co-op Indl Estate, Balanagar, -500037; Ph: 261379, 262865, Gram: Cyanamid, Secunderabad; Madras: 114 Suryanarayana Chetty St, Royapuram, -600013; Ph: 551755, Gram: Cyanagri; New Delhi: Bhandari House, 4/24A Asaf Ali Rd, PB No 7049,-110002; Ph: 274593, 276961, 271821; Patna: House of Satyanarayana Bhagat, 1st Floor, S P Verma Rd, PB No 101,-800001; Ph: 54727. Brand Names: Aureomycin Nutritional Formula, Aureomycin Soluble Powder, Aurofac Feed Supplement, Sulmet Drinking Water solution,Verban solution.

D K Pharma, 2/116 Mangaldas Bldg No 2, 5/9 Mangaldas Rd, Bombay 400002; Ph: 258995, Gram: Dhruvstar; Prop: Kirit C Dhruv, Ph: 356546 (resi).

DECCAN HOMOEO PHARMACY, 4-1-410 Opp Sagar Talkies, Abid Rd, Hyderabad 500001; Ph: 42911; Prop: Dr Masood Ahmed Ansari. Brand Names: Coccizon, Corizon, Cirdezon, Egg Promozon, Pulsazon, Strokzon, Utiprozon.

DIAMOND AGROVET INDUSTRIES, 32 DSIDC Industrial Complex, Jhilmil Tharapur, Sahadra, Delhi 110032; Ph: 203426, 202470; Mg Partner: R S Sethi; Gen Mgr (Group of Companies): Rajesh Sethi. Product: Feed Supplement. Brand Name: Diamond M M Poultry.

DOMESTO (P) LTD, Gogineni Vari St, Maruthinagar, Vijayawada 520004; Ph: 63884; Mg Dir: M K Gupta, Ph (resi): 74603; Sales Dir: B Hareswara Rao, Ph (resi): 61528. Brand Names: Leymore$_{12}$, Mixoplex$_{12}$.

E MERCK (INDIA) LIMITED, Shivsagar Estate 'A', Dr A B Rd, Worli, PB No 16554, Bombay 400018; Ph: 4922855, Gram:Merckindia, Tlx: 011-3256; Mgr, Pharma Div: J C D'Lima. Product: Vitamin E Dry Powder 50%.

ESKAYEF LIMITED, Devanahalli Rd, Off Old Madras Rd, PB No 2, Bangalore 560049; Ph: 58861, Gram: Eskaylab, Tlx: 845-411 SKF IN; Vice Pres-Mktg (AHP): Dr C N Pandit; Sales Mgr (AHP): Dr A K Bishnoi. Regional Offices -- Bangalore: 49, First Block, Jayanagar; Ph: 602716 -- Dr C S Muralidharan; Chandigarh: 1092 Sector 21B; Ph: 21440 -- Dr R B S Walia; New Delhi: A-67 Dayanand Colony, Lajpat Nagar IV -- Dr O P Sanduja; Patna: B-137 People's Coop Colony, Lohianagar, Kankarbagh -- Dr D K Goel; Pune: Nanda Deep, 1304 Shukarwarpeth -- Dr V D Swadi, Ph: 444366; Secunderabad: Plot No 94, Gunrock Enclave, Karkhana, -500003; Ph: 820299 -- Dr K Prasad. Brand Names: Neftin, Bifuran, Furasol.

ESS KAY AGRO-VET INDUSTRIES, No 1230/C Katchery Rd, PB No 104, Vaniyambadi 635751, North Arcot Dist, Tamil Nadu; Mg Partner: Syed Khader Basha. Branch: 14-9-74 Gollingspet, Chittoor; Mgr: Mohd Ghouse Basha. Product: Mineral mixtures. Brand Name: Micromin.

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  Trimethoprim/ Sulphadiazine
  SAFE BROAD- SPECTRUM
  CHEMOTHERAPEUTIC
  WITH BACTRICIDAL
  ACTION. Water
  dispersible powder/
  Tablet/Bolus/ Injection
- COXYSOL-AK
  Nitrofurazone/
  Furazolidone with
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  Once-A week supplement
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5. CHANDRA BAGH AVENUE, Dr. RADHAKRISHNAN ROAD,
MADRAS-600 004. GRAMS: ALVED, PHONE: 849449, 89927

Ph: 25399, Gram: Ethicare; Partner: Satish Anand. Brand Names: Deverm (Tetramisole), Eggmax, Furan-100.

EVERSUN LABORATORIES, SCO 104, Sector 35-C, Chandigarh 160036. Products: Ampivet, Chlorosin, Sunplex-E.

FEEDS INDIA, 115B/3 Paramathi Rd, Ganesapuram PO, Namakkal 637002, Tamil Nadu; Ph: 2330, Gram: Feeds; Mg Partner: M K Ponnusamy. Brand Name: Minfeed.

G LOUCATOS & CO, Mercantile Chambers, 12 J N Heredia Marg, Ballard Estate, Bombay 400038; Ph: 263489, 269576, Gram: Gerassimos, Tlx: 011-5123 GLEN IN; Mg Partner: N K Shah; Mktg Mgr (Vet): R J P Bhatikar. Product: Tylogil.

GLAXO LABORATORIES (INDIA) LTD, Anim Health Div, Dr A B Rd, Worli, Bombay 400025; Ph: 4933871, 4933514, Gram: Glaxolabs, Tlx: 71554; Mktg Mgr: V M Palkar; Tech Services & Trg Mgr: Dr S Bhattacharyya. Regional Sales Mgrs -- Bombay: A K Deshmukh, 252 Dr A B Rd, Worli,-400025; Ph: 4933871, 4933514, Gram: Glaxolabs, Tlx: 71554 GLXO IN; Calcutta: G P Lahiri, 50 Hide Rd, -700027; Ph: 459195, Gram: Glaxolabs, Tlx: 7449 GLAXLAB CA; Delhi: Mathura Rd, Okhla Industrial Estate,-110065; Ph: 632269, Gram:Glaxolabs, Tlx: 2512 GLAX IN, 2473 GLAX IN; Madras: Dr K K Narasimhan, 30 Velachery Rd, Guindy, -600032; Ph: 414146, Gram: Glaxolabs, Tlx: 487 GLAXLAB MS. Brand Names: B_{12} liq, Groviron Fucox, Ostocalcium, ^{12}Complex B Glaxo Liquid, Muncmycin Forte, Piperazine Liquid, Vimeral,Vitablend AB_2D_3,Vitablend WM Forte.

GOKA COMPANY, 4419 ^{2}Malwaiya Chowk, Panchavati, Nasik 422003; Ph: 74149; Prop: Kashinath R Toshniwal; Sr Personnel: Sunil Toshniwal; Mfg Chemist: Sushil Toshniwal. Products: Ayurvedic Medicines. Brand Names: Swellnil Ointment, Scabnil Oleo.

HERBS (INDIA) PVT LTD, PB No 160, Shardanagar, Saharanpur 247001, UP; Ph: 7920; Mg Dir: Sushiel Kumar Agrawal; Dirs: V K Agrawal, Kartikeya Agrawal.

HINDUSTAN ANTIBIOTICS LIMITED (A Govt of India Enterprise), Pimpri, Pune 411018; Ph: 86511-13, 86521-24, 83712, Gram: Antibiotic, Tlx: 145-279; Mg Dir: D B Telang; Mktg Mgr: L M Sarma; Asst Mktg Mgr: K S Shankaranarayana. Regional Sales Depots: Ahmedabad: 29 Patel Estate, Opp Bank of Maharashtra, Narol Naroda Highway, Isanpur, -382343; Bangalore: 'Matruchhaya', 44/2 Dickenson Rd, -560042; Ph: 579572, Gram: Penicillin, Tlx: 0845-8035; Bombay: 340 Sir J J Rd, Byculla, -400008; Ph: 379231, Gram: Antibiotic, Tlx: 011-4777; Calcutta: P-5, Scheme LII, CIT Rd,Puddapukur, -700014; Gram: Penicillin, Tlx: 021-7155; Cochin: Uthara Bldg, XXXVI/784-AI Karakkat Rd, Ernakulam, -682016; Ph: 39787, Gram: Penicillin; Delhi: 12/1 Asaf Ali Rd, Jeevan Raksha, -110002; Ph: 273508, Gram: Penicillin, Tlx:031-65087; Hyderabad: 3-6-111/8 Liberty Rd, Himayatnagar, -500029; Jabalpur: 'Meenakshi', 1544 Napier Town, -482002; Ph: 27789, Gram: Antibiotic; Jaipur: 33 Sangram Colony, Durga Sula; Lucknow: 173/33 Dr B N Verma Rd, Aminabad, -226018; Ph: 33903, Gram: Antibiotic, Tlx: 535-235; Madras: 3 Murray's Gate Rd, Alwarpet, -600018; Ph: 454152, Gram: Penicillin, Tlx: 046-6098; Patna: P-257 Block B, Premchand Marg, Opp Stadium, Rajendranagar, -800016; Ph: 53542, Gram: Antibiotic; Pune: Sir J J Rd, Sassoon Hospital Compound, -411001. Brand Names: Hamycin AVS, Oxytra, Primicin-Vet, Piperazine liquid.

HOECHST INDIA LIMITED, Hoechst House, 193 Backbay Reclamation, Nariman Point, PB No 11123, Bombay 400021; Ph: 230607, Gram: Hextfam, Tlx: BY-2724; Mgr, Vet: Dr J N Dwivedi; Mgr, Tech Services: Dr K K Agarwal; Asst Mgr Product Promotion Vet: Dr Y G Deshpande. Branches -- Ahmedabad: Mission Rd, Bhadra, -380001; Ph: 393135-66, 393227, Gram: Hextfam, Tlx: AH-323; Mgr: A V Rao; Bombay: Khetan Bhavan, 193 Jamshedji Tata Rd, PB No 11026, -400020; Ph: 222064/86, Gram: Hextfam; Mgr: J C Rodrigues; Calcutta: 6 Ganesh Chandra Ave, PB No 8997, -700013; Ph: 239891-93, Gram: Hextfam, Tlx: CA-5348; Mgr: M P Dutta; Delhi: Hoechst House, 3/1 Asaf Ali Rd, PB No 7065, -110002; Ph: 265451, Gram: Hextfam, Tlx: ND-3135; Mgr: S S Shetty; Hyderabad: 3-5-822 Hyderguda Rd, PB No 1035, -500029; Ph: 221395, Gram: Hextfam, Tlx: 0155-614; Mgr: I K Jaie; Lucknow: 'Skylark', C-43/28 Newal Kishore Rd, Hazratganj, PB No 221, -226001; Ph: 45056, 47538, Gram: Hextfam, Tlx: 256; Mgr: K G Subramanian; Madras: McDowell House, 3 Second Line Beach, PB No 1297, -600001; Ph: 20167-69, Gram: Hextfam, Tlx: 474; Mgr: V K Parmanand; Patna: 4/2 Bodh Marg, PB No 117, -800001; Ph: 21274, Gram: Hextfam, Tlx: 265; Mgr: R Sengupta. Depots -- Cuttack: Ice Factory Rd, Junespatna, -753003; Ph: 21577, Gram: Hextfam, Tlx: 205; Mgr: V B Chandra; Guwahati: Danish

Rd, Pan Bazar, PB No 107, -781001; Ph: 25361, Gram: Hextfam, Tlx: 227; Mgr: K N Mehrotra; Indore: 22/3 New Palasia, PB No 147, -452001; Ph: 4361, Gram: Hextfam, Tlx: 227; Mgr: J S Wagh; Jaipur: J-2-33 Mahavir Rd, C Scheme, PB No 129, -302001; Ph: 62089, Gram: Hextfam, Tlx: 230; Mgr: A K Sahney. Brand Names: Codrinal, Hostacycline WS, 3-Nitro Hoechst.

HYGEIA FEEDS AND MINERALS PVT LTD, 7-A Sannadhi St, Thiruvanmiyur, Madras 600041; Ph resi: 415099; Mg Dir: V Ramasamy. Product: Mineral feed supplement. Brand Name: Hygeia.

IEL LIMITED, Crop Protection & Pharmaceuticals Div, Post Bag No 5, Ennore Express Highway, Ernavoor, Ennore PO, Madras 600057; Ph: 554831-8, Gram: Savlon, Tlx: 041-586; Chief Exec (Crop Protection & Pharmaceuticals Div): R Seshasayee; Comml Mgr: J Sridharan; Medical Info Offr: S Ramu; Pharmaceuticals Comml Dept: K Ganesh. Regd Off: 34 Chowringhee Rd, Calcutta 700001. Brand Names: Lorexane, Nilverm, Savlon Vet Concentrate.

INDIAN DRUGS & PHARMACEUTICALS LIMITED (A Govt of India Undertaking), Mktg Div, Head Off: Samrat Bhawan, A-7, 8, 9 Ranjeet Nagar Complex, Community Centre, New Delhi 110008; Ph: 5715186, 5715193, 5719051, 5711672, Gram: Eidipiel, Tlx: 031-2574; Dir (Mktg):Vikramajit, Ph: 5713512, 5715223; Gen Mgr (Sales): Dr S S Jolly; Sr Mktg Mgr(Vet): J N Verma; Sr Mktg Exec (Vet): Dr S C Srivastava; Sales Exec (Vet):S K Wazir. Regd Off: IDPL Complex, Dundahera, Delhi-Gurgaon Rd, Gurgaon 122001; Ph: 393124, 393269, Gram: Indrapharm, Tlx: 031-2574; Chmn & Mg Dir: Kunwar Gajendra Singh. Regional Sales Off: Ahmedabad: Vidyagauri Nilkanth Marg, Khanpur, -380001; Ph: 20244, 23836; Bangalore: 49 Kengal Hanumanthaiah Rd, PB No 2728, -560027; Ph: 229024, 226488; Bombay: Brown Boveri House, 264-265 Dr A B Rd, Worli, -400025; Ph: 4228059, 4228052, Tlx: 011-71118; Calcutta: 1 Acharya J C Bose Rd, -700020; Ph: 440912, 432258, Tlx: 021-3132; Chandigarh: 41 Sector 26-C, Madhya Marg, -160026; Ph: 32197; Cochin: 'Sandhya' Flower Junction, PB No 1308, Ernakulam, -682011; Ph: 39891, 33450; Delhi: 8 Community Centre, East of Kailash, -110065; Ph: 6431675, 6431678; Guwahati: Soni Ram Bora Rd, Ulubari, PB No 14, -781007; Ph: 27319; Hyderabad: 41-419/23 Troop Bazar, -500001; Ph: 41872, 52405, Tlx: 0155-208; Indore: 17, Dr R S Bhandari Marg, Race Course Rd, -452003; Ph: 34167; Jaipur: 7 Narayan Singh Rd, -302004; Ph: 74276, 66104; Karnal: Minara Rd, -132001; Ph: 3578; Lucknow: Tej Bahadur Sapru Marg, Hazrat Ganj, PB No 327, -226001; Ph: 33943, 49959; Madras: IDPL House, 109 Anna Salai, -600002; Ph: 840445, 840205, Tlx: 041-505; Patna: S P Verma Rd, -800001; Ph: 22441, 21773. Brand Names: Dimidine Oral solution, Octim Boluses, Piperazine Adipate powder, Sulphadimidine tablets, Sulphaguanidine tablets, Sulphanilamide dusting powder, Tetracycline water sol powder, Vitamin premixes.

INDIAN HERBS RESEARCH & SUPPLY CO (REGD), THE, Sharda Nagar, PB No 5, Saharanpur 247001, UP; Ph: 7920, 6044, Gram:Indianherb; Chief Exec: R K Agrawal. Branch Off: 33/1, 1st Floor, National High School Rd, Visveswarapuram, Bangalore 560004; Ph: 609451. Brand Names: Himalayan Batisa, Himax, Livol, Neblon, Pestoban, Taenil, Teeburb, Wopell.

JAY KAY AGRO-VET INDUSTRIES, 158/5 Trunk Rd, PB No 102, Vaniyambadi 635753, N A Dist, Tamil Nadu; Gram: Jaykay. Branch: 14-13-36/1, Ramnagar Colony, Chittoor, AP; Mgr: S Nisar Ahmed. Products: Mineral mixtures. Brand Name: Boostomin.

JUDES PHARMACEUTICALS PVT LTD, 27, 28 Main Rd, Namakkal 637001, Tamil Nadu; Ph: 2375, 2085, 2718, Gram: Judes; Mg Dir: V Thirumalai, Ph: 2735 (resi). Factory: Servaikaranpatty PO 621215, Musiri Tk, Trichy Dist, Tamil Nadu. Products: Judes Vitamin supplements & mineral mixtures.

K R V AGENCIES, 3-F Mill Rd, Gobichettipalayam 638476, TN; Ph: 293, 193, resi: 93, Gram: Keyarveet; Partners: G V Viswanathan, G V Krishna Moorthy; Technical Offr: Dr Ramasamy.

KAMDHENU AGRO-CHEM INDUSTRIES, 35 Western India House, 4th Floor, Sir P M Rd, Fort, Bombay 400001; Ph: 258172,258612, Gram: Cafpoul; Mg Partner: B M Shah. Brand Names: Cafsup, Poulsup.

KEMWELL PRIVATE LIMITED, Kemwell House, 11 Tumkur Rd, Yeshwanthpur, Bangalore 560022; Ph: 366724, 366725, 366726, Gram: Kemwell, Tlx: 845-8319.

KENT PHARMACEUTICALS, 1 Jamnagar Society, Gulmohur X Rd No 11, JVPD Scheme, Juhu, Bombay 400049; Ph: 573115, Gram: Complamino; Sales Mgr: M A Turakhia.

KWALITY AGRO-VET INDUSTRIES, 149-150 Duraisamy Nagar, Saminathapuram, Salem

636009, Tamil Nadu; Ph: 67860; Mgr: Joy Joseph. Products: Mineral mixture, Vitamin mix.

KWALITY CHEMICAL INDUSTRIES, D-27, MIDC, Miraj 416410, Dist Sangli, Maharashtra; Mgr: Anil Bhurke. Products: Mineral mixtures and vitamin mixes.

LIPTON INDIA LIMITED, Lakshminarayana Complex, 10/1 Palace Rd, Bangalore 560052; Ph: 73508, 71536, Gram: Lipton, Tlx: 8011. Animal Feeds Div -- Vice Pres: A Abraham; Tech Mgr: Dr K Srinivasan. Brand Name: Gold Mohur Poultrymins.

LIVESTOCK FEED & EQUIPMENT CO, 202 Poonamallee High Rd (Aminjikarai Bridge), Madras 600029; Ph: 422349, 421243, Gram: Lisfec; Prop: D Radhakrishnan. Product: Mineral feed supplement. Brand Name: Belmin.

M J PHARMACEUTICALS LIMITED, Animal Health Care Div, 126 Jolly Maker Chambers No 2, Nariman Point, Bombay 400021; Ph: 2020644, 2027311, Gram: Emjaypharm, Tlx: 011-4677; Mg Dir: J M Shah; Gen Mgr: Dr M N Vora; Mgr: Dr C S Bedi; Product Mgr: Dr G B Kulkarni. Brand Names: Ampijay, Coxidot, Furtin, M-Jayplex, Tylotrate.

MSD AGVET, Div of Merind Limited, New India Centre, 17 Cooperage, PB No 10081, Bombay 400039; Ph: 230676, Gram: Medohme, Tlx: 011-3459; Mg Dir: N D Khurody; Finance Mgr: H J Tavaria; Mktg Mgr: N Raghvendra; Planning Mgr: S Munir. Marketed and distributed by: Voltas Ltd. Brand Names: Amprolium Soluble Powder, Amprolium Plus Ethopabate Premix APF 100.

MADRAS AGRO-VET INDUSTRIES, Near Pudur Railway Gate, Muslimpur, Vaniyambadi 635751, North Arcot Dist, Tamil Nadu; Ph: 2705, Gram: Harfa; Mg Dir: T Nisar Ahmed; Lab Chemist: A Mohammed Yakoob. Sales Depot: 14-10-5 Goolings Pet, Chittoor 517001. Products/Brand Name: Hafra mineral mixture, Protomin concentrate.

MAXMIN AGROVET CORPORATION, Rajan Bldg, P L Sharma Rd, Begum Bridge, PB No 322, Meerut 250001, UP; Ph: 72425; Sales Exec: R C Sethi. Brand Name: Mac.

MAY & BAKER (INDIA) LIMITED, Maybaker House, Worli, PB No 9150, Bombay 400025; Ph: 4934511, 4934532, 4934914, Gram: Bismuth, Tlx: 5846; Mgr, Anim Health: B V Agnihotri; Mktg Mgr: M K Shenoy. Depots -- Bangalore: 35/1 Kanakpura Rd, Basavangudi, PB 436; Ph: 606597, Gram: Bismuth, Tlx: 8313; Bombay: Maybaker House, Worli, PB 9150; Ph: 4934511, 4934532, 4934914, Gram: Bismuth, Tlx: 5846; Calcutta: 7 Old Court House St, PB 2023; Ph: 235535-36-37, Gram: Bismuth, Tlx: 2515; Guwahati: Sarat Chandra Goswami Rd, Pan Bazar; Ph: 24095, Gram: Bismuth; Hyderabad: No 10-5-1/3A, Masab Tank; Ph: 225145, Gram: Bismuth, Tlx: 569; Indore: Bhans' Bungalow, 1/1 New Palasia, PB 175, Ph: 5934, Gram: Bismuth, Tlx: 256; Jaipur: 31/32 Bani Park Extn Scheme; Ph: 76419; Lucknow: Akash Deep, 23 Vidhan Sabha Marg, PB 255; Ph: 47825, Gram: Bismuth, Tlx: 256; Madras: 125 Marshalls Rd, Egmore, PB 773; Ph: 88053, 87430, Gram: Bismuth, Tlx: 7441; New Delhi: Chaudhary Bldg, 'K' Block, Connaught Circus, PB 693; Ph: 350778, 351318, Gram: Bismuth, Tlx: 4504; Patna: Shanti-Niketan, Fraser Rd, PB 22; Ph: 21431, Gram: Bismuth, Tlx: 275. Brand Name: Antrima.

MEDICINE INDIA PHARMACEUTICALS, 7-A Sannadhi St, Thiruvanmiyur, Madras 600041; Mg Partner: V Ramasamy, Ph (resi): 415099. Factory: 6 Rajachar St, T Nagar, Madras 600017; Ph: 446955. Brand Names: Media Furan, Medimin, Media Minforte, Mediamix, Mediaplex, Mediavit E,Mi Furan.

MEDIVET LABORATORIES, 3-32 Iqbal Mansion, Saroornagar, Hyderabad 500035; Ph:59082; Mgr: G S Wagle. Product: Mineral mixture.

MICRO LABS PRIVATE LIMITED, 303, Third Floor, 'A' Wing, Queen's Corner Apartments, 3 Queens Rd, Bangalore 560001; Ph: 26785, 79609, Gram: Activite; Mg Dir: G C Surana, Ph: 74898 (resi); Mktg Mgr: Dr M V R Reddy, Ph: 567755 (resi). Branches -- Hosur: 92 SIPCOT Industrial Complex, -635126, Tamil Nadu; Ph: 6618, Gram: Activite; Mgr: Anand Surana; Madras: 423 Kilpauk Garden Rd, -600010; Ph: 611789, 611712, Gram: Activite. Brand Names: Avicox, Furalay-200, Microsol, Mortin-Vet, Wormal, Clopidox, Bancoxy-K Powder, Bacitrin.

MINIMIX PHARMACEUTICALS (P) LTD, 21-A Gandhinagar, PB No 5, Namakkal 637012; Ph: 2930, 2948 (Factory), Gram: Minimix; Mg Dir: N Pappu, Ph: 2939, 2912 (resi). Branches -- Bangalore: 252, 37-A, Cross, 9th Block, Jayanagar, -560069; Madras: E-48, Plot No 3398, Anna Nagar, -600102; Ph: 611112. Brand Names: Becovet, Helmavet, Maxield-Plain Poultry, Maxield Poultry, Sulfavet, Vitavet, Vital, Vetoint.

NANDYAL AGRO-VET INDUSTRIES PVT LTD, THE, Poultry Feed Supplement Div, Gangavaram

M. J. Products
Profits all the way



M.J. Pharmaceuticals Ltd.
Animal Health Care Division,
126, Jolly Maker Chambers-2, Nariman Point,
Bombay-400 021. Telephone: 202 0644/202 7311
Cable: EMJAYPHARM Telex:11-4677 MJAY IN

Crescent Designer

Vill 518583, Kurnool Dist, AP; Ph: 35 (Gazulapalli); Mg Dir: G Vijayaraghavan. Brand Names: Maxomin (mm), Henmin (mm).

NECTARINE PHARMACY, Bhagirath Palace, Delhi 110006; Ph: 236587, 235915, 234264, Gram: Nectaplex; Partner: Prem Sehgal. Works: 47 Indl Area, Faridabad, Haryana; Ph: 2139. Brand Names: B-Complex Syrup, Kegg Feed Concentrate, Nectacycline injection, Nectarine Calcium B-12 Syrup, Poulymix, Tetrex.

NORTH STAR MARKETING PRIVATE LIMITED, 407 Lakshmi Bhawan, 72 Nehru Place, New Delhi 110019; Ph: 6413130, Gram: Norstar, Tlx: 31-3969 NSM IN; Mg Dir: Ravi Sikund. Products: Dicalcium Phosphate, Coccidiostats, Vitamin premixes, growth promoters, Mineral mixtures. Branch: 79 Indl Area, Phase I, Chandigarh 160002; Ph: 20419 PP. Brand Name: Farmcare.

NUMBUR LABORATORIES, 15/205 Brindavanam, Nellore 524001, AP; Ph: 3893; Mg Partner: N Mohan Rao, Ph (resi): 5441; Sr Personnel: Dr A Jayaprasad Reddy.

NUTRI-VET CO PVT LTD, 56-K Sarabha Nagar, Ludhiana; Ph: 30165, resi: 39758; Mg Dir: Dr N S Ichhopani. Products: Coxaid, DOT, NV-50, Nutrivit-B, Vitanitro, Nutrimin (mm).

P C I PHARMACEUTICALS PVT LTD, 304 Arun Chambers, J Dadajee Rd, Tardeo, Bombay 400034; Ph: 4947441/2/4, Gram: Pharmindia, Tlx: 011-75233 PCI IN; Dirs: K M Shah, M C Patel; Exec, Vet Div: Dr A S Sheikh. Branches -- Bangalore: 3024, 5th Main, BSK IInd Stage, -560070; Ph: 607868, Gram: Pharmindia; Mgr: V Bajpai; Calcutta: Block 'B', P-15 Lake Town, -700055; Ph: 574871; Mgr: S Bhoumik; Cuttack: Link Rd, Opp Hotel Bishram, -753012; Ph: 23223; Mgr: S Lahiri; Guwahati: G N B Rd, Opp T C Girls School, -781003; Ph: 31442; Mgr: Bipul Goswami; Indore: 34-B New Palasia Rd No 2, -452001; Ph: 7393, Gram: Pharmindia, Tlx: 0753-326; Mgr: S C Shroff; Jabalpur: 2661 Wright Town, Near Telegraph Gate No 2, -482002; Ph: 28024; Mgr: D K Dutta; Jaipur: B-209/A Rajendra Marg, Bapu Nagar, -302015; Ph: 75550; Mgr: Arun Simlote; Lucknow: 45/4 Wazir Hasan Rd, -226001; Ph: 48272, Gram: Pharmindia, Tlx: 0535-237; Mgr: K V Saxena; Madras: 22 Challamal St, Shenoy Nagar, -600030; Ph: 617359, Gram: Pharmindia, Tlx: 041-6458; New Delhi: 202-203 Satyam Cinema Complex, Ranjit Nagar, -110008; Ph: 5715270, 5722344, Gram: Pharmindia, Tlx: 031-4789; Mgr: R K Wadhwa; Patna: House No 353-K, 3rd Floor, S P Verma Rd, -800001; Ph: 31313, 32313, Gram: Pharmindia; Mgr: Sushanto Bhoumik; Secunderabad: 1-7-69/3 & 4 Sarojini Devi Rd, -500003; Ph: 75108, Gram: Pharmindia, Tlx: 0155-6858; Mgr: V Bajpai; Vapi: Atul Coop Housing Society, Plot No 27; Ph: 369. Products: Chemozine powder, Gentavet Inj, Helmisol 1.5%, Phenivet Inj.

PADMAJA TRADERS, 29-13-72 Suryaraopet, Vijayawada 520002; Ph: 64215 PP; Mg Partner: T P Rao. Products: Feed Suplement. Brand Names: Coplex, Egs Mor, Vermicide.

PEARL CHEMICAL INDUSTRIES PVT LTD, 42 Strand Rd, Calcutta 700007; Ph: 335199, 335724; Dir: T K Burman. Factory: T N Mukherjee Rd, PO Raghunathpur 712247 (Makhla), Dist Hooghly. Brand Names: Furazone, Minovit, Multisol, Cestophene, Multimin, Sulphadimidin 16%, Piperazine citrate.

PEST CONTROL (INDIA) PVT LTD, 36 Yusuf Bldg, Mahatma Gandhi Rd, PB No 1510, Bombay 400023; Ph: 251546, 255471, Gram: Pestcil, Tlx: 11-5166 PCI IN; Chmn & Mg Dir: N S Rao; Dep Mg Dir: Mohan S Rao. Mktg Div: Mollee Tollaa Bldg, 504 Linking Rd, Bandra, Bombay 400050; Ph: 539116, 542530, Gram: Pestcil, Tlx: 11-5166; Mktg Mgrs: V R Bajikar, B S Dhurandhar. Branch: 7 Jantar Mantar Rd, PB No 581, New Delhi 110001; Ph: 312568, 312569, 320519, Gram: Pestcil, Tlx: 31-4836; Dir, Plg & Tech: M R Bajikar. Brand Names: Pest-O-Flash, Etoxide, Rodafarin, Pestseal, Termiseal, Sterifume.

PFIZER LIMITED, Express Towers, Nariman Point, Bombay 400021; PB No 667, Bombay 400001; Ph: 2022824, Gram: Pfizer, Tlx: 2115; Mktg Dir, Agri Div: Farrokh K R Mehta; Vet Services Mgr: Dr P P Jamkhedkar; Mktg Mgrs: Dr M L Kanchan, Dr A C Arora. Regional Offices -- Bombay: Express Towers, Nariman Point; Mgr: Dr S P Arora; New Delhi: B-51, Okhla Industrial Area, Phase I, -110020; Ph: 635585, Tlx: 7126; Mgr: Dr K P Lathey; Secunderabad: 126 Sarojini Devi Rd, PB 1649; Ph: 72516; Mgr: Dr G S Bhushan Rao. Other Offices -- Ahmedabad: Khanpur, PB 297; Ph: 24738; Bangalore: 44/3-44/4 Dickenson Rd, -560042; Ph: 55865, 55510; Bombay: Quay St, Lakri Bunder, Darukhana; Ph: 372424, 376143, Gram: Pfizerdepo; Calcutta: 36 Ganesh Chandra Avenue; Ph: 243373, 245556, Tlx: 7845; Cochin: XXIII/1188 Mahatma

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MADRAS 600 010

Gandhi Rd, PB 1753; Ph: 32260; Cuttack: Dolmundi, GPO Box No 65; Ph: 2012; Guwahati: Daar Ul Noor, Danish Rd, PB 47; Ph: 4922; Indore: 580 Mahatma Gandhi Marg, PB 116; Ph: 4171; Jaipur: Arvind Marg, Mirza Ismail Rd, PB 142; Ph: 73789; Lucknow: Pilibhit House, 6 Shahnajaf Rd, PB 217; Ph: 28723, 26778; Ludhiana: 28 Club Rd; Ph:23878; Madras: 2/24 Pantheon Rd, Egmore, PB 799; Ph: 25761, Tlx: 7313; Patna: Fraser Rd, PB 100; Ph: 23571; Srinagar: Dr Balwant Singh's Bldg, The Bund; Ph: 4391. Brand Names: Terramycin Egg Formula, Terramycin Poultry Formula with Anti-Germ 77, TM-10, TM-50, TM-Forte, Vitamin-M (Premix).

PIYA PHARMACEUTICAL WORKS, Mohan Nagar, Ghaziabad, UP; Ph: 866782, 866660; Delhi Off: Khurana Medicos, Bhagirath Palace, Chandni Chowk, Delhi 110006; Ph: 234696; Mg Partner: R P Khurana, Ph: 5723562, 5716113. Products: Feed Supplements. Brand Names: Neutinne, Piyabee, Piyablend, Piya-Feron, Piyamix, Piyamycetin, Vetaplex, Zonamix, 3-Nitro-Piyastat.

POLYOLEFINS INDUSTRIES LTD, Mafatlal Centre, 11th Floor, Nariman Point, Bombay 400021; Ph: 2024226, Gram: Pilene, Tlx: 011-3478; Mktg Mgr: C R Gupte; Mgr, Chemicals Indent: L F Mascarenhas. Brand Names: Aflaban, Alimet, MHA, Santoquin.

PRAKASH FEED MILLS PRIVATE LTD, Plot No 3583, M-12 Anna Nagar East, Madras 600102; Ph: 615455; Mg Dir: Dr D V R Prakasha Rao. Factory: No 253 Bandikavanur, Sholavaram, Madras 600067. Product: Mineral supplements. Brand Name: Nutrimin Doctors' Special.

PROVIMI PRODUCTS PVT LTD, 3-F Mill Rd, Gobichettipalayam 638476, Tamil Nadu; Ph: 193, 293, Gram: Provimi. Regd Off: Bangalore. Product: Mineral mixtures.

PUNJAB AGRO-VET INDUSTRIES, 282 Industrial Area, Phase II, Chandigarh 160002; Ph: 43758; Partner: R K Bansal. Brand Name: Shakti.

QUALITAT PRODUCTS (INDIA), 3312 Sector 32-D, Chandigarh 160031; Ph: 23204, 45662; Prop: Anil Berry, Ph: 33111 (resi).

RAKSHAK FARM AIDS PRIVATE LIMITED, 1-11-222/6, Begumpet, Hyderabad 500016; Ph: 822495, 823081, Factory: 202 (Jeedimatla), Gram: Rakshak, Secunderabad, Tlx: 155-6444 PCO IN Rakshak; Mg Dir: A K Jairath. Products: Poultry feed supplements. Brand Name: Rakshak.

RANBAXY LABORATORIES LIMITED, Anim Health Care Div, 78 Nehru Place, New Delhi 110019; Ph: 6416417, 6416160, Gram: Ranbaxy, Tlx: 031-2715; Mg Dir: Dr Parvinder Singh, Ph: 6411991; Dir Mktg: N S Sawhney, Ph: 6416088; Dep Gen Mgr: C K Madvesh, Ph: 6416160; Vet Services Mgr: Dr Zachariah Mathew; Dep Sales Mgr: Dr S Paul Vijayakumar; Market Planning Offr: S R Misra; Brand Mgr: Dr P R Rao; Distribution Mgr: Shashi Chopra. Regional Offices -- Ahmedabad: High Court Way, Ashram Rd, -380009; Ph: 448830; Branch Admn Offr: Ashok Bhardwaj; Bombay: 205/206 Raheja Centre, Nariman Point, -400021; Ph: 222893, 223432; Regl Admn Mgr: S M Sukthankar; Area Sales Mgr: S S Kesharwani; Calcutta: 5-A Lord Sinha Rd, -700071; Ph: 447121; Regl Admn Mgr: N V Ramani; Chandigarh: SCO No 57, Sector 26, Madhya Marg, -160026; Ph: 20278; Branch Admn Offr: H Balan; Hyderabad: 5-4-187/6 Karbala Maidan, M G Rd, -500003; Ph: 77510; Regl Sales Mgr: Dr S K Ayyangar; Branch Admn Offr: R Rajagopalan; Madras: 4 Kodambakkam High Rd, -600034; Ph: 475973, 475974; Regl Admn Mgr: N Srinivasan; New Delhi: 78 Nehru Place, -110019; Ph: 6416417, 6416160; Regl Sales Mgr: S P Suri; Regl Admn Mgr: S C Mehru. Brand Names: Amfedol Powder, Biotrim Cap, Biotrim Inj, Calmex Inj, Calmex-M Inj, Famitone, Floclox-L, Lemasol Inj, Lemasol Powder, Paquin Powder, Pentaforte Powder, Ronalgin Inj, Roscillin Inj, Roscillin Oral Powder, Stronic Inj, Tevansi Inj, Tonate Powder, Zeebac Powder.

RESEARCH LABORATORY PROJECT FOR POULTRY AND INDIAN HERBAL MEDICAMENT, Bajpai Ahata 'B', Shuklaganj, PO Gangaghat, Dist Unnao, UP; Ph: 66501; Prop: Deshbandhu Bajpai. Brand Name: Flugofit.

ROCHE PRODUCTS LIMITED, 28 Pt M M Malviya Rd, (Tardeo Rd), PO Box No 7901, Bombay 400034; Ph: 4945890, Gram: Hofroche, Tlx: 75169; Mgr: Dr V M Adhikari; Asst Mgr: Dr P P Vitkar. Distributors: Voltas Ltd. Brand Names: Rovibe, Rovimix, Rovisol oral.

ROUSSEL PHARMACEUTICALS (INDIA) LTD, Agro Vet Div, Dr A B Rd, Worli, PB No 16568, Bombay 400018; Ph: 4920120, Gram: Labossel, Tlx: 011-5444; Mg Dir: P K Kakodkar. Branches: Bombay, Calcutta, Delhi.

SARABHAI CHEMICALS, Marketing Head Office, Vet Div: 616/617 Off Vikram Sarabhai Marg, Behind Sastri Bridge, Vadodara 390003; Ph: 66885, Gram: Farmvet, Tlx:

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0175-551; Gen Mgr (Mktg), Vet Div: Dr S M Balan, Ph: 66828; Mgr, Sales Coord: Dr S Narayanan; Product Mgrs (Vet): Dr A P Mamtani, Dr J P Joshi, Dr T G Chandramohan, Dr D D Sharma. Plant & Laboratories: Wadi Wadi, PB No 31, Baroda 390007; Ph: 82531, 82736, Gram: Sara, Tlx: 0175-221. Area Mktg Offices -- Lucknow: Anand Bhavan, 16 Vidhan Sabha Marg, PB No 11; Ph: 47276, Gram: Sarachemic, Tlx: 0535-255; Area Mktg Mgr (Vet): Dr D N Tiwari; Patna: Transport House, Janak Kishore Rd, Kadam Kuan, PB No 44, -800003; Ph: 50822, Gram: Sarachemic, Tlx: 022-263; Area Mktg Mgr (Vet): Dr S P Verma. Divisional Offices -- Baroda: 616/617 Off Vikram Sarabhai Marg, Behind Sastri Bridge, -390003; Ph: 82531; Div Mgr: Dr D R Shah; Calcutta: 27 Mirza Ghalib St, PB No 9177, -700016; Ph: 240808-9; Div Mgr: Dr A K Banerjee; Lucknow: Anand Bhawan, 16 Vidhan Sabha Marg, PB No 11, -226001; Ph: 47279; Div Mgr: Dr B M Pant; Ludhiana: 338 Industrial Area 'A', PB No 178, -141008; Ph:37381; Div Mgr: Dr B B Shonek; Madras: 3 Monthieth Lane, Egmore, PB No 790,-600008; Ph: 810881-2; Div Mgr: Dr K S Varadarajan; Secunderabad: Plot 22/2/A & B, Bholakpur, PB No 1679, -500003; Ph: 77315; Div Mgr: Dr P Prabhakar Rao. Regional Offices (Vet) -- Ambala: PB No 41, -133001: Ph: 20880; Reg Mgrs: Dr M V Singh, Dr A K Sehgal; Bangalore: PB No 2777, -560027; Ph: 578959; Reg Mgrs: Dr N K Rai, Dr S Chandrasekharan; Baroda: Manisha Estate, Opp GEB Substation, Chhani; Ph: 65612; Reg Mgr: Dr V D Bhorkar; Bombay: PB No 5560, -400014; Ph: 8829834; Reg Mgr: Dr B Srihari; Calcutta: PB No 9177, -700016; Ph: 240808-9; Reg Mgr: Dr R N Chakravorti; Cochin: PB No 2026, -682018; Ph: 36540; Reg Mgr: Dr C T Mathew; Cuttack: PB No 74, -753012; Reg Mgr: Dr B N Lenka, Ph: 24960; Guwahati: 19A Jasabanta Rd, Pan Bazar, -781001; Ph: 26076; Reg Mgr: Dr U N Singh 'Ukesh'; Ghaziabad: PB No 159, -201001; Ph: 85-2403; Reg Mgr: Dr S B Sharma; Jaipur: PB No 144, -302001; Ph: 73659; Reg Mgr: Dr G K Katarya; Kanpur: PB No 186, -208002; Ph: 46821; Reg Mgr: Dr U C Srivastava; Lucknow: PB No 11, -226001; Ph: 48745; Reg Mgr: Dr M D Pandey; Ludhiana: PB No 178, -141008; Ph:37381; Reg Mgrs: Dr V S Bamba, Dr S P Choudhery; Madras: PB No 232, -600008; Ph: 810881; Reg Mgr: Dr U K Choudhary; Muzaffarpur: PB No 56, -842002; Ph: 3682; Reg Mgr: Dr D C Srivastava; Nagpur: Yashodham, Dharampeth, -440010; Ph: 24494; Reg Mgr: Dr R S Lahurikar; Patna: PB No 44, -800003; Ph: 51741; Reg Mgrs: Dr A K Varma, Dr S K Banerjee; Secunderabad: PB No 1679, -500003; Ph: 73751. Regl Sales Promotion Offices (Vet) -- Baroda: 616/617 Off Vikram Sarabhai Marg; Mgr: Dr S C Tugnait; Lucknow: PB No 11, -226001; Mgr: Dr S K Wadhawan; Patna: PB No 44, -800003; Mgr: Dr K M Prasad. Brand Names: Stancillin soluble powder, Xidox soluble powder, Piperazine solution with Electrolytes, Piperazine Hexahydrate Liquid, Supplevite-M, Supplimin, Supplimin without salt, CHQ-60, ZB-80, Klop, Cocciwin, Profidone, Dozone, Zintrim.

SAREEN HOMOEO LABORATORIES, Court Rd, Near State Bank of India, Jagadhri 135003, Haryana; Ph: 6266, Gram: Sareen Homoeo; Prop: Dr Kumaril B Sareen. Brand Name: Sahopoul.

SHUGAN KUMAR JAIN & CO PVT LTD, 1496 Bhagirath Palace, Delhi 110006; Ph: 236764, Gram: Labhopharma; Mg Dir: Shugan Kumar Jain; Dir: Rakesh Jain. Product: Pharmaceutical raw materials.

SRI VIJAYASRAMAM, Repalle 522265, Guntur Dist, AP; Ph: 42; Prop: T Ramamohana Rao. Brand Names: Lazin, Stomavet, Crimicide Kshiravet.

SRINI BIOLOGICAL LABORATORIES PVT LTD, Flat H, 2nd Floor, Subhodaya Apartments, 4-1-1233, Bogulkunta, Hyderabad 500001; Ph: 237254, 237255, 236424, Gram: Babcocl, Tlx: 0155-724 VASU IN; Dep Gen Mgr: B Manik Rao, Ph (resi): 227609. Distributors: Saptagiri Marketing Associates. Brand Names: Albac, Piperazine Hexahydrate, Strescel, Tylosin Tartrate, V Fur-20, Veldot.

STAMAC PRODUCTS, 108 A & B Hazra Rd, Calcutta 700026; Ph: 474431, 470842. Brand Names: Stamachic, Verlan, Vetanplex.

STANVET PRODUCTS PRIVATE LIMITED, 13/1 Ultadanga Rd, Calcutta 700004; Mg Dir: Nirmal Bikash Chakraborty. Factory: Narayantala, Baguiati, Calcutta 700059. Products: Furadin V/50 & V/200, Polysol AD_3EC liquid, Polymin AD_3 powder, Polymin AB_2D_3 powder, Stanmin (mm), Sulphadimidine 16% w/v, Piperazin Citrate 45%, Trizine Suspension, Coccex liquid.

SUNDAR CHEMICALS, 13 Mooker Nallamuthu St, Madras 600001; Ph: 24540, 25237, 423465, Tlx: 041-6431 SUND IN. Brand Name: Sucestal.

SUPER ANIMAL HEALTH PRODUCTS, 95-B Gobind

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(Granules)

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TRIDENT TWINFURAN
(Coccidiostat)

TRIDENT-A
(Water miscible)

TRIDENT-B
(Liquid B-Complex)

TRIDENT BOOSTER
(Liquid B-Complex with amino acids—Lysine, Methionine and Choline Chloride)

TRIDENT
PRODUCTS

1-2-29, Gagan Mahal Road,
Hyderabad 500029
Phone: 62720

Nagar, Ambala Cantt 133001; Prop: Dr Gurdarshan Singh Walia. Brand Names: Nutrimin, Tracemin.

TTK PHARMA PRIVATE LIMITED, Animal Welfare Div, 66 Luz Church Rd, Mylapore, Madras 600004; Ph: 74110 (off), 433211 (factory); Mg Dir: Dr K Kuppuswamy; Gen Mgr (Mktg): S S Nadkarni; Sales Mgr: Dr D G Selvakumar. Regd Off: 6 Cathedral Rd, Madras 600086. Brand Names: Coxidot, Robatran, Robendol, Tefroli.

THEMIS CHEMICALS LIMITED, Anfeed Div, Poonam Chambers, B Block, 3rd Floor, Dr A B Rd, Worli, Bombay 400018; Ph: 4921974, 4923863, Gram: Medithem, Tlx: 11-74492; Mg Dir: S D Patel; Mktg Mgr: Dr S S Chousalkar, Ph (resi): 620012; Sales Offr: Nayan Parikh. Branch: 8-2-674/2/8 Road No 13, Banjara Hills, Hyderabad 500034; Ph: 220489; Mgr: S Ramakrishna. Brand Names: Nefur, Nefur H C, Regecoccin Premix,Vermitan,Vitator.

TONOLICKS INDUSTRIES, 'Basant Mansion', 37 Shabad Pratap Ashram, Gwalior 474012; Ph: 22280, Gram: Tonolicks; Prop: Dr Basant Shrivastava. Products: Feed supplements. Brand Names: Calciphos, Provitone, Tonomin, Tonomix Forte.

TORRENT VETERINARY PRODUCTS PVT LTD, "Sanskrut", High Court Rd, Ahmedabad 380009; Ph: 445247, 460004, 460005, Gram: Trinilab, Tlx: 121-606 TNL IN; Adviser (R&E): Dr J V Anjaria.

TRIDENT AGENCIES, 23/25 Dhirubhai Parikh Marg, Parekh Bldg, 3rd Floor, Princess St, Bombay 400002; Ph: 316424, 369927, Gram: Parlefeeds, Bombay 400002.

TRIDENT PRODUCTS, 1-2-29, Gagan Mahal Rd, Hyderabad 500029; Ph: 62720; Mg Partner: R A Paul. Brand Names: Trident A, Trident AB_2D_3, Trident $AB_2D_3+B_{12}$, Trident B,Trident Booster, Trident Furazolidone, Trident Twin Furan.

UNION CARBIDE INDIA LIMITED, Agricultural Products Div, United Commercial Bank Bldg, 5 Parliament St, New Delhi 110001. Product: Sevin.

UNIVERSAL PHARMACEUTICALS, K-73/4 GIDC Industrial Estate, Mehsana 384002; Ph: 2922, 2068, 3118, Gram: Unipharma; Mg Partner: S K Rayaka. Products: Vit $A+D_3$, Vit $A+B_2+D_3$ mix.

VELVEN LABORATORIES (INDIA) PRIVATE LIMITED, 7 Narayan Bhuvan, Bhandarkar Rd, Matunga, Bombay 400019; Ph: 481842, 651020; Chmn & Mg Dir: S Venkataraman; Dir: R Sridharan. Factory: 59-60 First Floor, Raja Industrial Estate, Mulund (West), Bombay 400080. Product: Liquid Feed Supplement. Brand Name: Velven-B.

VENKATESHWARA PESTICIDES & ALLIED CHEMICALS PVT LTD. Regd Off: 8-II Lal Bahadur Stadium, Hyderabad 500001. Admn Off: 3-6-220, Himayatnagar, Hyderabad 500029; Ph: 37917, Gram: Vepco, Tlx: 0155-724 VPCO IN. Brand Names: Vepmal, Vepcarb, Vepfen.

VENVET CHEMICALS PRIVATE LIMITED, 3-6-97 Shaheedyar Jung Rd, Near Thirumala Apartments, Basheerbagh, Hyderabad 500029; Ph: 32616, Gram: Venvet; Mg Dir: Dr V Muniratnam; Tech Dir: Dr B Krishna Mohan Rao. Products/Brand Name: Venmix, Venmix Forte, Venvit AB_2D_3, Venvit AB_2D_3+K,Venbee,Venfur-20C, Venbac-100, Venvet T M, Aflocop Forte, Venvet B_{12}, Venectral, Venphos+AD_3, Brovittol, Vendot, Vensure, Trumin (Breeders Spl), Trumin (Broilers Spl), Trumin (mm).

VESPER INDIA, M S K S Bldg, Sirur Park Rd, Seshadripuram, PB No 2040, Bangalore 560020; Ph: 369512, 364707, Gram: Vesper; Chmn: P N Sharma; Mg Dir: Dr Suresh Sharma; Sales Coordinator: H K Nanjaiah; Mktg Mgrs: Anil Nijhavan, Vijay Alikhan, Manoraj. Branch -- Hyderabad: 16-20-27/105/36/B, 1st Floor, Municipal Colony, Malakpet, -500036; Ph: 551707. Brand Names: Altoxol, AFS, Kox-Care, Calvit, Elcof, Kcox, Lactomin, Metabolex, Neo Calcium, Nutrisol, Rumax, Stressnil, Vesimix, Protosol, Minobex, Growfast.

VETCARE, Div of Tetragon Chemie Pvt Ltd, No 90, 3rd Cross, 2nd Main Gangenahalli, Bangalore 560032; Ph: 369174; Mg Dir: Bharat Tandon; Jt Mg Dir: C Gopala Swamy. Brand Names: Neocare, E Care Se, Electrocare, Tineacare, Biocare, Vitacare.

VETS FARMA PVT LTD, Mandi Fenton Ganj, Jalandhar 144001; Ph: 72474, Gram: Vetsfarma; Mg Dir: R K Laroiya; Mktg Mgr: Dr G S Ambole. Products: Pharmaceuticals & feed supplements. Brand Name: Vets.

VIDARBHA PHARMACEUTICALS PVT LTD, 195 Small Factory Area, Bhandara Rd, Nagpur 440008, Maharashtra; Ph: 41277, Gram: Aquadistil; Mg Dir: Hansraj Gajbhiye.

VIVIN CHEMICAL INDUSTRIES, Gandevi Rd, PO Devsar, Bilimora 396321, Gujarat; Ph: 2290 PP; Prop: S M Parikh, Ph (resi): 2863. Product: Mineral mixture.

VYNA ORGANIC CHEMICAL INDUSTRIES LTD, 507 Embassy Centre, Nariman Point, PO Box No 1403, Bombay 400021; Ph: 233896, 231258, Tlx: 011-6282 UTEX IN; Mg Dir: B Vivek Shetty, Ph (resi): 572345;

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BROVITTOL	VENBAC-100
VENBEE	VENECTRAL
VENVET B_{12}	VENSURE

VENVET

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BASHEER BAGH, HYDERABAD 500029.

Phone: 32616 • *Grams:* VENVET

Exec Dir: C N Shetty; Gen Mgr: Sunil Khot; Production Mgr: S N Rao. Products: Disinfectants and general cleaning. Brand Name: Aldepol.

WALFARS PHARMACEUTICALS, 24 Ismail Rawther St (Telc Compound), Coimbatore 641001, Tamil Nadu; Mg Partner: Raajkumar Walter, Ph (resi): 33646; Partners: R Sunderraj, Francis Raja; Chief Mktg Exec: M Manoharan. Regd Office: 6/7 Race Course, Coimbatore 641018. Branch: 16/4 T C M Royan Rd, Bangalore 560053. Factory: B-3 Industrial Estate, Krishnagiri, Tamil Nadu. Products: Vitamins, dewormer and mineral mixtures. Brand Name: Walfars.

WEB PHARMA, Undi Sheri, Near Tower, PB No 11, Anand 388001, Gujarat. Products: Ayurvedic Vet Medicines/feed supplements.

WOCKHARDT VETERINARY PRIVATE LIMITED, Poonam Chambers, 5th Floor, Shivsagar Estate, Dr A B Rd, Worli, Bombay 400018; Ph: 4928526, 4928775, Gram: Wochem, Tlx: 011-73837; Mg Dir: H F Khorakiwala; Mktg Mgr: N S Mathur. Factory: Chikalthana Industrial Estate, Jalgaon Rd, Aurangabad 431001; Ph: 8496-8, Gram: Wochem, Tlx: 0745-239. Brand Names: Coccilium, Nefrazone, Woktrin Dispersible Powder.

Late Additions

SMAK PHARMACEUTICALS PRIVATE LTD, 51, First Main, Vyalikaval, Bangalore 560003; Ph: 366225; Mg Dir: B N Nanjundaiah.

VENTRI CHEMICALS PRIVATE LIMITED, Animal Health Products Div, 19/2 Panshet Rd, At Vill Osade, Tal Velhe, Pune Dist; Ph: 31299, Tlx: 0145-329, 319; Production Mgr: J R Naik; Asst Production Mgr: M A Darshane. Products/Brand Name: Liquid: Stresvel AD3EC, Piperazine Hexahydrate 56.3% W/V; Powders: V-Fur-200; Albac; Veldot; Coxydol; Vendox Vet, Tylosin Tartrate.

Your Attention Please!

If you have an entry in the **Yearbook**, you may suggest the names of individuals/organizations who do not at present appear but whom you consider worthy to be included in the **Yearbook**. Please send us a postcard with names and addresses of any suitable persons organizations to whom we will be glad to send a form.

FEED ANALYTICAL LABORATORIES

(Continued from page 407)

THERAPEUTICS CHEMICAL RESEARCH CORPORATION, Rustom Mahal, 2nd Line Beach, Madras 600001; Ph: 24678; Mgr: M V Vaidya, Ph: 86682 (resi).

UNIVERSITY OF AGRICULTURAL SCIENCES, Hebbal, Post Bag No 2477, Bangalore 560024; Ph: 35383 Ext 11, Gram: Univagris. Dept of Poul Sc; Head: Dr B S Ramappa.

Eastern Region

ANALYTICAL AND INDUSTRIAL ENTERPRISE, P-15 India Exchange Place Extension, Todi Mansion, 3rd Floor, Calcutta 700073; Ph: 270886, 271446, 411878 (resi),Gram: Analab; Advisers: D C Mittra, A K Chunder. Branch: Katni 483501, MP, Ph:2092.

BIDHAN CHANDRA KRISHI VISWA VIDYALAYA, PO Kalyani 741235, Nadia Dist; Dept of Anim Nutrition; Head: Dr G C Banerjee.

GCVT OF ASSAM, Feed Analysis Laboratory, Khanapara, Guwahati 781022; Ph: 87370; Physiological Chemist: Mrs M Moral.

GOVT OF MEGHALAYA, Dte of AH & Vet Services, Feed Analytical Laboratory, Kyrdemkulai, PO Nayabunglow 793005, East Khasi Hills; Incharge: Dr D Lyngdoh, Asst Res Offr.

INDUSTRIAL RESEARCH LABORATORY, Govt of West Bengal, Canal South Rd, Pagladanga, Calcutta 700015; Ph: 244632.

ITALAB PRIVATE LIMITED, Mercantile Bldg, 10 Lal Bazar St, Calcutta 700001; Ph: 236370.

NATIONAL TEST HOUSE, Dept of Supplies, Min of Commerce & Civil Supplies, Govt of India, 11/1 Judges Court Rd, Calcutta 700027; Ph: 459231.

ORISSA UNIVERSITY OF AGRICULTURE & TECHNOLOGY, Bhubaneswar 751003; Ph: 50732; Dept of Anim Nutrition; Prof & Head: Dr N C Panda.

RANCHI COLLEGE OF VETERINARY SCIENCE & ANIMAL HUSBANDRY, Kanke, Ranchi 834007; Dean & Principal: Dr H R Misra.

REGIONAL FEED ANALYTICAL LABORATORY, Govt of India, c/o Central Poultry Breeding Farm, Bhubaneswar 751013, Orissa; Ph: 51875, 55735; Incharge: Dr Shashi Ranjan, Dir, CPBF.

SGS INDIA PRIVATE LIMITED, 4 Govt Place North, PB No 2330, Calcutta 700001; Ph: 236955, 236295, Gram: Supervise.

THE AGVET RANGE

FEED PRODUCTS	INDICATION
1. MICRON-P	A complete Trace Mineral premix for poultry.
2. MICRON-R	A complete Trace Mineral premix for Ruminants.
3. VITRAMIN for LAYERS	A comprehensive Vitamin Trace Mineral Premix.
4. VITRAMIN-C	A comprehensive Vitamin Trace Mineral and medicated premix for chicks.
5. VITRAMIN-N	A comprehensive Vitamin Trace Mineral premix with 3-Nitro for Broilers.
6. VITRAMIN-N-Spl.	A comprehensive Vitamin Trace Mineral premix with 3-Nitro and Coccidiostat for Broilers.
7. NUTRIVET	5% 3-Nitro premix.
8. ZOLTIN-200	20% Furazolidone premix.
9. Be Ce Ke	High potency Vitamins B complex C and K_3 in water soluble form.
10. ZINCIN	Zinc Bacitracin premix 5% and 10%.
11. NUTRIMIX-Spl.	Vitamin A B2 D3 (with higher concentration of B2 premix.
12. NUTRIMIX-Spl. with K	A premix containing A B2 D3 and K.
13. LIVTON	A premix containing Choline, Methionine Lysine, Niacinamide and Cal. Propionate

HEALTH PRODUCTS	INDICATION
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2. COXYMIX	Clopidol 25% premix.
3. AMPROCOX	Amprollium HCl 20% water soluble.
4. BICOX	Nitrofurazone Furazolidone combination Coccidiostat.
5. AMPIVET	Ampicillin 5% water soluble.
6. TETRAVET	Tetracycline water soluble.
7. NEMATIN	Tetramisol dewormer.
8. PIPRAZINE	Dewormer.
9. ERYTHRIN	Erythromycin 20% water soluble.
10. SYNTIC	A Trime thoprim - Sulphadiazine combination as water soluble powder.
11. THEARSOL	A Furaltadone 20% water soluble.

For further DETAILS please write to :

AGVET INDUSTRIES
AGVET 14-41/1, PRASHANT NAGAR
UPPAL, HYDERABAD 500039
Tel : 85 10 17

Disease Diagnostic Centres

Listed statewise below are poultry disease diagnostic centres/laboratories, where facilities for disease diagnosis, post-mortem, clinical examination, etc. are available including those at the State Departments of Animal Husbandry and Veterinary Services as well as agricultural universities. Not included in this list are the five Regional Disease-Diagnostic Laboratories at Ahmedabad, Gurgaon, Hyderabad, Jhansi and Patna as well as the National Veterinary Biologicals Production Quality Control Centre to be set up at Gurgaon.

Northern Region

DELHI

VETERINARY HOSPITAL, Delhi Administration, Moti Bagh-I, New Delhi 110021; Ph: 672161; Disease Control Offr: Dr S M Dahiya.

HARYANA

COLLEGE OF VETERINARY SCIENCES, HAU, Hissar 125004; Ph: 3721 ext 254, Gram: Vetcol; Dept of Vet Pathology, Prof & Head: Dr R K Paul Gupta; Assoc Profs: Dr M U Kharole, Dr S N Dixit, Dr K C Bhatia; Anim Pathologist:Dr J R Sadana; Nutritional Pathologist: Dr P C Verma; Micrcbiologist: Dr V D Purohit; Asst Profs: Dr A K Pruthi, Dr S K Mishra; Asst Scientist (Microbiology):Dr Puran Chand.

DISEASE INVESTIGATION LABORATORIES, Haryana Agril Univ -- Central Laboratory: Hissar; Offr Incharge:Dr R C Kulshreshtha; Ph: 4062; Ambala City: Disease Investigation Offr: Dr Jagjit Singh, Ph: 56249; Gurgaon: Disease Investigation Offr: Dr D K Balani, Ph: 2609; Karnal: Asst Disease Investigation Offr: Dr S K Sharma, Ph: 2650; Rohtak: Asst Disease Investigation Offr: Dr C L Shukla, Ph: 4714.

KEGG FARMS PVT LTD, Central Diagnostic Laboratory, M-49 DLF Colony, Gurgaon 122001; Ph: 21616 (PP); Incharge: Dr S K Chawla.

POULTRY DISEASE INVESTIGATION LABORATORY, Govt of Haryana, Vet Hospital, Sonepat 131001; Ph: 2001; Offr Incharge:Dr Devi Dyal Pahwa.

HIMACHAL PRADESH

GOVERNMENT OF HIMACHAL PRADESH, Dte of AH -- RKD Eradication Scheme, Regional Poultry Farm, Kamlahi, Shimla 171004; Ph: 2835; Poul Dev Offr: Dr K L Bhanot.

JAMMU & KASHMIR

GOVERNMENT OF J & K, AH Dept -- Jammu Div: Dep Dir, Res & Production, R S Pura: Dr J L Raina. Disease Investigation Offrs -- Doda: Dr P L Tandon; Jammu: Dr O N Raina; Kathua: Dr K K Gupta; Poonch: Dr B D Sharma; Rajouri: Dr M L Trakru; Udhampur: Dr M M Gupta. Kashmir Div: Poul Proj, Hariparbath, Srinagar 190001; Dist Clinical Laboratories: Anantnagh, Badgam, Baramulla, Kargil, Kupwara, Leh, Pulwamma.

SHER-E-KASHMIR UNIVERSITY OF AGRICULTURAL SCIENCE & TECHNOLOGY, Faculty of Vet Sc & AH, Baghi Ali Mardan Khan, Nowshera, Srinagar 190011; Dean: Dr M A Ghafoor.

MADHYA PRADESH

COLLEGE OF VETERINARY SCIENCE & ANIMAL HUSBANDRY, JNKVV, South Civil Lines, Jabalpur; Ph: 25302, Gram: Vetcol; Estd: 1948; Dept of Vet Pathology -- Dr J L Vegad, Dr R P Awadhiya & Dr B S Dhodapkar.

COLLEGE OF VETERINARY SCIENCE & ANIMAL HUSBANDRY, JNKVV, Mhow 453441; Ph: 222, 240, Gram: Vetcollege; Dean: Dr K S Johar; Extension Head: Dr R M Bakshi.

INSTITUTE OF DISEASE INVESTIGATIONS, R A K

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GOVERNMENT OF PUNJAB POULTRY FARM, Lado Wali Rd, Jalandhar; Poul Pathologist, Incharge: Dr C B Jairath.

DR CHAWLA'S VETERINARY CLINIC & DIAGNOSTIC LAB, 641 Gurdev Nagar, Opp Canal Rest House, Pakhowal Rd, Ludhiana 141001; Dir: Dr R S Chawla, Ph resi: 35358.

GETWELL POULTRY CLINIC & VETERINARY LAB, 248 Sector 35-A, Chandigarh 160035; Ph: 45198; Consultant Vet:Dr C B Singh.

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PUNJAB AGRICULTURAL UNIVERSITY, Animal Disease Research Centre, Coll of Vet Sc, Ludhiana 141004; Ph: 22960 ext 385, Gram: Vetcol; Sr Scientist-(VDI)-cum-Head: Dr M S Kwatra; Virologist: Dr Gurkripal Singh; Pathologist: Dr Balwinder Singh Gill; Paristologist: Dr Jasmer Singh; Bacteriologist: Dr Dev Raj Sharma; Asst Scientists: Dr J S Gill, Dr S P Singh.

RAJASTHAN

COLLEGE OF VETERINARY & ANIMAL SCIENCES, Mohan Lal Sukhadia University, Bikaner Campus 334001; Ph: 3178, Gram: Rajvetcol, Estd: 1954; Dept of Vet Pathology, Prof & Head: Dr P L Arya.

GOVERNMENT OF RAJASTHAN; Poul Disease Diagnostic-cum-Feed Analytical Laboratories -- Ajmer: Incharge: Dr B K Shukla, Ph: 20447; Jaipur:Poul Disease Investigation Offr: Dr V S Das, Ph: 73237; Jodhpur: Incharge: Dr K C Mehta, Ph: 21241; Kota: Incharge: Dr B L Sharma, Ph: 4965; Udaipur: Incharge: Dr N L Bhatnagar, Ph: 5601.

S K N COLLEGE OF AGRICULTURE, Jobner 303329; Ph: 22, Estd: 1947; Dean: Dr R C Mehta.

UTTAR PRADESH

ALLAHABAD AGRICULTURAL INSTITUTE, PO Agricultural Institute, Allahabad 211007; Gram: Agrinst; Estd: 1910; Dept of AH; Offr Incharge (Poul): Dr R H Sagar, Ph: 7291.

COLLEGE OF VETERINARY SCIENCE, GB Pant Univ of Agri & Tech, Pantnagar 263145, Gram: Pantvarsity; Dept of Pathology, Prof & Head: Dr N P Singh; Dept of Med, Prof & Head: Dr H C Joshi; Poul Pathologists: Dr N P Singh & Dr U K Sharma.

GOVERNMENT OF UTTAR PRADESH, Disease Investigation Laboratory, Dte of AH, Gokaran Nath Rd, Badshahbagh, Lucknow 226006; Ph: 74853, Gram: Pashupalan; Disease Control Offr (Poul): Dr V K Jain, Ph: 74853; Livestock Dev Offrs (Poul): Dr D K Choudhry & Dr S K Saxena.

INDIAN VETERINARY RESEARCH INSTITUTE, Izatnagar 243122, Bareilly Dist; Ph: 5510, Gram: Vetex; Estd: 1889; Div of Avian Diseases, Head: Dr G C Mohanty; Poul Disease Specialists: Dr K C Verma, Dr R L Sah, Dr S C Arya, Dr H K Pradhan, Dr A S Panisup, Dr J M Kataria, Dr S D Singh, Dr B Pattnaik.

Western Region

GOA

GOVERNMENT OF GOA -- Clinical Investigation Unit, Tonca-Caranzalem, Goa 403002; Ph: 2623; Disease Investigation Offr: Dr Saradindu Ray.

GUJARAT

GOVERNMENT OF GUJARAT, Poul Disease Investigation Centres -- Ahmedabad: Opp Vet Hospital, Prem Darwaja, -380001; Asst Disease Investigation Offr (Poul): Dr H R Patel; Junagadh: Amrit Kunj,-362002; Ph: 349, Gram: Vetsearch; ADIO (P): Dr A M Matchvi; Navsari: Lunsi Kui, Dashera Takri, -396445; Ph: 952; ADIO (P): Dr D M Patel; Surat: c/o Pashu Davakhana, Badekha Chakla, Kazi Medan, -395001; ADIO (P): Dr Sharma.

GUJARAT COLLEGE OF VETERINARY SCIENCE & ANIMAL HUSBANDRY, Gujarat Agril Univ, Anand Campus, Anand 388001, Kheda Dist; Ph: 3464, Gram: Gujvet; Dept of Pathology; Prof & Head: Dr D D Heranjal; Asst Prof: Dr K S Prajapati; Asst Prof:

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BOMBAY VETERINARY COLLEGE, Konkan Krishi Vidyapeeth, Parel, Bombay 400012; Ph: 442793, 447033, Gram: Bovet; Estd: 1886; Assoc Dean: Dr P D Sardeshpande.

GOVERNMENT OF MAHARASHTRA, Disease Investigation Section, Dte of AH, Aundh, Pune 411007; Ph: 58474, Gram: Vet-research; Dep Dirs: Dr N S Kyadiguppi, B S Shriguppi; Asst Dir, Disease Investigation (Poul): Dr S V Kukade. Divl Disease Investigation Laboratories — Akola: Vet Polyclinic Compound,-444001; Asst Dir, Disease Investigation (CSG): Dr V D Dongaonkar;Res Asst (Salmonella): Dr V V Pande; Aurangabad: Vet Polyclinic Compound, Khadkeshwar, -431001;Ph: 2053; Asst Dir, Disease Investigation (CSG): Dr V M Hatwalkar; Asst Dir of AH (Poul): Dr R N Bhatlawande. Bombay: Mucosal Disease Controlling Unit, Anim Nutrition Laboratory, Aarey Colony, Goregaon, -400065; Ph: 692518; Res Offr: P H Misal; Chiplun: c/o Proj Offr, ICDP, -415605; Asst Dir (Salmonella): Dr K T Pore; Kolhapur: Vet Polyclinic Compound, Mangalwar Peth, -416002; Asst Dir: Dr M A Naikwadi; Nagpur: Vet Polyclinic Compound, opp Maharajbaug, Sitabuldi, -440002; Ph: 22928; Asst Dir, Disease Investigation (Poul): Dr A S Khati; Nasik: Vet Polyclinic Bldg, Gole Colony, -422002; Ph: 3541; Asst Dir, Disease Investigation (CSG): Dr R B Jamkhedkar; Asst Dir of AH, Disease Investigation (Poul): Dr H G Apte.

PUNJAB KRISHI VIDYAPEETH, Postgraduate Institute, Poul Res Centre, Akola 444104; Ph: 2278/22 & 2974, Gram: University; Estd: 1972; Dept of Bacteriology, Pathology & Parasitology; Head: Dr B L Purohit; Reader in Vet Pathology: Dr D L Paikre.

VENKATESHWARA HATCHERIES POULTRY DIAGNOSTIC & RESEARCH CENTRE, 13/6 Milestone, Panshet Rd, PO Girinagar, Pune 411025; Ph: 442244, 442748, 442663, 442561, Tlx: 0145-329 VASU IN; Tech Mgr: Dr G N Kolte.

Southern Region

ANDHRA PRADESH

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COLLEGE OF VETERINARY SCIENCE, APAU, Rajendranagar, Hyderabad 500030; Ph: 48164; Dept of Pathology, Offr Incharge of Disease Diagnosis: Dr S M Mohiuddin, Assoc Prof & Head.

COLLEGE OF VETERINARY SCIENCE, APAU, Tirupati 517502; Ph: 2531; Dept of Pathology; Prof & Head: Dr P Rama Rao.

ESSEN LABORATORIES, Peddibhotlavari St, Governor Pet, Vijayawada 520002; Ph: 63201 (PP), Gram: Essen Feeds; Prop: P Satyanarayana, Ph resi: 74110.

GOVERNMENT OF ANDHRA PRADESH, Dte of AH — Anim Health Centres — Chittoor: Asst Dir: Dr Rasheed Khan; Cuddapah: Asst Dir: Dr Prabhakara Rao; Kurnool: Asst Dir: Dr Mohd Ali Khan; Mahabubnagar: Asst Dir: Dr G Rama Rao; Vijayawada: Asst Dir: Dr Ramakrishna.

MASFED POULTRY CONSULTANCY AND DISEASE DIAGNOSTIC LABORATORY, 16-7-382-18, Saifa Mosque, Azampura, Hyderabad 500024; Ph: 45772; Mg Dir: Dr Mohd Younus.

MOKHEET, DR M A, 15-11-17/6/2 Saleemnagar, Hyderabad 500036; Ph: 43493.

SINGH POULTRY PRIVATE LIMITED, Disease Diagnostic Laboratory, Unity House, 2nd Floor, Abid Rd, Hyderabad 500001; Ph: 34253 & 35954, Gram: Singpoltry; Mg Dir: Harbans Singh; Hon Poul Pathologist: Dr Mahender.

VENKATESHWARA HATCHERIES DISEASE DIAGNOSTIC & RESEARCH LABORATORY, Subhodaya Apartments, Ground Floor, 4-1-1233 Bogulkunta, Hyderabad 500001; Ph:220331; Offr Incharge: Dr Zahir Ahmed, Dr D Kishan Rao. Branch: Hayat Nagar, R R Dist; Offr Incharge: Dr K Mohan Reddy.

VETERINARY BIOLOGICAL & RESEARCH INSTITUTE, Govt of AP, Shantinagar, Hyderabad 500028; Ph: 36356, Gram: Biovet; Jt Dir Incharge: Dr Krishna Ashrit; Jt Dir (Disease Investigation): Dr S Vasant

Rao; Dep Dir (Poul Diseases): Dr G Narayana.

KARNATAKA

AGRICULTURAL COLLEGE UAS, Dharwad 580005; Gram: Agrisearch; Estd: 1947; Head: Dr R B Patil, Dept of AH & Dairying; Vet Hospital.

DEEJAY POULTRY DISEASE DIAGNOSTIC & RESEARCH LABORATORY, 24, 6th Cross, Hutchins Rd, Cooke Town, Bangalore 560005; Incharge: Dr S Suresh, Ph: 568701.

GOVERNMENT OF KARNATAKA — Regl Clinical Labs, Vet Hospital; Res Offrs — Belgaum: Dr A Gokak, Ph: 22802; Bellary: Vacant, Ph: 3130; Gulbarga: Vacant, Ph: 491; Mangalore: Dr H Mohandas Hegde, Ph: 2389.

INDIAN VETERINARY RESEARCH INSTITUTE, Southern Regional Station, Hebbal, Bangalore 560024; Ph: 32509, 30835.

INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, Govt of Karnataka, Hebbal, Bangalore 560024; Ph: 362443, 361502, Gram: Anihealth; Dir: B S Keshavamurthy; Investigation Offr (Poul): Dr Abdulla Sheriff.

VETERINARY COLLEGE, UAS, Hebbal, Bangalore 560024; Ph: 365383 ext 19, Gram: Vetex; Dept of Vet Pathology, Prof of Pathology: Dr S J Seshadri; Assoc Prof: Dr R N Sreenivasa Gowda; Asst Prof: Dr S K Vijayasarathi.

KERALA

CENTRAL HATCHERY, Govt of Kerala, Angadical South PO, Chengannur 689122, Alleppey Dist; Ph: 277, Gram: Hatchery; Production Mgr: Dr K O Oommen; Extn Offr: Dr Philiph M Varghese.

COLLEGE OF VETERINARY & ANIMAL SCIENCES, Kerala Agril Univ, Mannuthy 680651, Trichur Dist; Ph: 22344; Estd: 1955; Dept of Pathology; Head: Dr A Rajan; Poul Scientists: Dr K M Ramachandran, Dr K I Maryamma, Dr K V Valsala.

GOVERNMENT OF KERALA, Dte of AH, Avian Disease Surveillance Laboratory, Thiruvalla; Dep Dir (AH): Dr K Sukumaran; Poul Disease Diagnostic Centres — Calicut: Clinical Laboratory, Dist Vet Hospital; Trivandrum: Vet Biological Inst, Palode.

TAMIL NADU

AGRICULTURAL COLLEGE & RESEARCH INSTITUTE, Tamil Nadu Agril Univ, Coimbatore 641003; Ph: 35461, Gram: Farmvar; Estd: 1971.

GOVERNMENT OF TAMIL NADU — Clinical Laboratories, State Animal Husbandry Dept — Bhuvanagiri 608601: S A Dist: Cuddalore Clinical Laboratories; Coimbatore 641002: Coimbatore Clinical Laboratories, Vet Hospital; Hosur 635109: Dharampuri Dist: Hosur Clinical Laboratories, Dist Livestock Farm; Kanchipuram 631501: Chingleput Dist: Kanchipuram Clinical Laboratories; Madurai 625002: Thallakulam Clinical Laboratories; Nagercoil 629001: Kanyakumari Dist: Nagercoil Clinical Laboratories; Orthand 614625: Thanjavur Dist: Orthand Clinical Laboratories; Pudukkottai 622001: Pudukkottai Clinical Labcratories; Ranipet 632401: N A Dist: Velore Clinical Laboratories; Saidapet 600015: Chingleput Dist: Madras Clinical Laboratories, Vet Hospital; Ph: 442082; Salem 636001: Salem Clinical Laboratories; Sivaganga 623560: Ramnad Dist: Sivaganga Clinical Laboratories; Sivaganga 627006: Tirunelveli Clinical Laboratories, Vet Hospital.

MADRAS VETERINARY COLLEGE, Vepery, Madras 600007; Ph: 31506, Gram: Vetdean; Dean: Dr P Kothandaraman; Prof & Head, Dept of Pathology: Dr R Ramakrishnan; Poul Pathologists: Dr S Vishwanathan & Dr K R Parthasarathy.

Eastern Region

ANDAMAN & NICOBAR

GOVERNMENT OF ANDAMAN & NICOBAR; Directorate of Animal Husbandry & Veterinary Services, Port Blair 744101; Ph: 2326, 2796, Gram: Dirvet; Dir: Dr S Raunaq Hussain.

ASSAM

COLLEGE OF VETERINARY SCIENCE, Assam Agril Univ, Khanapara, Guwahati 781022; Ph: 87281, Gram: Vetcol; Dept of Pathology/ Dept of Clinical Med, Incharge: Dr G K Roychaudhury.

GOVERNMENT OF ASSAM — Anim Health Centre, Khanapara, Guwahati 781022; Ph: 87514; Dep Dir Incharge: Dr D L Mazumdar. Dist Disease Diagnostic Laboratories — Cachar: Silchar; Darrang: Tezpur; Ph: 210; Goalpara: Dhubri; Ph: 74; Kamrup: Mobile Dispensary, Khanapara; Ph: 27514; Lakhimpur: Dibrugarh 786004; Ph: 240; Nowgong; Ph: 213; Sibsagar: Jorhat; Ph: 126.

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LIVESTOCK RESEARCH STATION, Bihar Veterinary College, Patna 800014; Ph: 24843.

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GOVERNMENT OF MEGHALAYA, Dte of AH, Clinical Laboratory, Garikhana, Veterinary Compound, Shillong 793002; Ph: 4695.

NAGALAND

GOVERNMENT OF NAGALAND, Disease Investigation Unit, Kohima 797001; Ph: 768; Asst Disease Investigation Office, Dimapur 797112; Ph: 849.

ORISSA

GOVERNMENT OF ORISSA, Poultry Disease-Diagnostic Centre, Chiplima 768026.

SIKKIM

GOVERNMENT OF SIKKIM, AH Dept, Disease Investigation Laboratory, Veterinary Complex, Deorali, Gangtok 737102; Ph: 521.

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GOVERNMENT OF TRIPURA, Dte of AH, Disease Investigation Laboratory, Abhoynagar, Agartala 799005; Dep Dir of AH (RE): Dr A K Majumdar.

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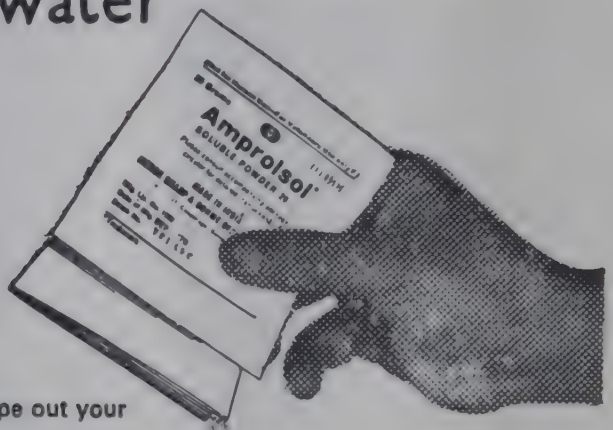
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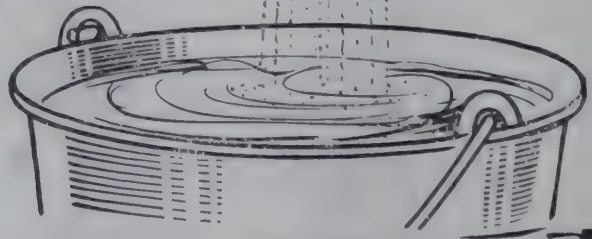
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ASSAM

INSTITUTE OF VETERINARY BIOLOGICALS, AH & Vet Dept, Khanapara, Guwahati 781022; Ph: 83111, Gram: Vaccine; Addl Dir: Dr D D Dass. Vaccines: FD fowl pox,pigeon pox, RD (F_1 and R_2B strains). Mode of distribution: Free within the State.

BIHAR

INSTITUTE OF ANIMAL HEALTH & PRODUCTION, Patna 800014; Ph: 24343, Gram: Vetinst; Dir: Dr R S Sharma. Vaccines: FD RD & RD (F_1 strain), FD fowl pox, FD pigeon pox.

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ANIMAL VACCINE INSTITUTE, Near Water Tank, Sector 28, Gandhinagar 382028, Gujarat; Ph: 2864; Dep Dir: Dr N S Huilgol.

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HARYANA VETERINARY VACCINE INSTITUTE, Hissar 125004; Ph: 4093, Gram: Vaccine; Offr Incharge: Dr Hari Singh Dahiya, Dep Dir. Vaccines: F_1RD, R_2B and Fowl pox.

JAMMU & KASHMIR

BIOLOGICAL PRODUCTS SECTION, R S Pura, Jammu 181102; Offr Incharge: Dr Narottam Singh, Res Offr (Vaccines). Vaccines: RD (R_2B strain). Biological products section, Srinagar; Ph: 2210.

KARNATAKA

INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, Hebbal, Bangalore 560024; Ph: 362443, 361502, Gram: Anihealth; Dir: Dr B S Keshava Murthy. Vaccines: FD Fowl pox and pigeon pox, FD R_2B and FD 'F' strain, and Salmonella Pullorum coloured and plain antigens. Mode of distribution: Free through qualified govt veterinarians for use in the State.

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INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, Palode, PO Pacha 695562, Trivandrum Dist; Ph: 62 (Pacha); Dir: Dr C K Ramachandran. Vaccines: RD and RD F strain, fowl pox, pigeon pox.

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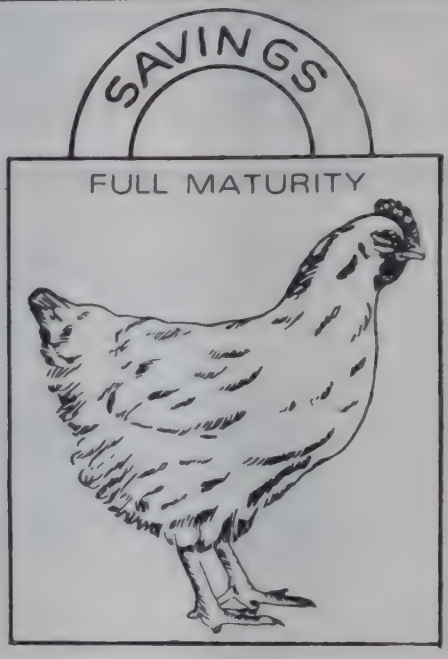
INSTITUTE OF BIOLOGICAL PRODUCTS, Rasalpura, Mhow 453446; Ph: 367, Gram: Jaivik; Dir: Dr Y T Kavthekar; Poul Specialist: Dr D S Shivdekar; Dep Dir, Viral Vaccines: Dr P D Dandawate. Vaccines: FD RD (R_2B), RD (F), fowl pox, pigeon pox, spirochaetosis. Mode of distribution: Free to State Veterinaty Institutions within MP.

MAHARASHTRA

BHARATIYA AGRO-INDUSTRIES FOUNDATION, THE, Briahnagar, Off Pune-Nagar Rd, Wagholi, Pune 412207; Ph: 70408-9, 70459, 70859, Gram: Briah, Wagholi, Tlx: 0145-283; Chief Exec: Dr D S Gorhe; Gen Mgr: Dr N S Datt; Mgr Mktg: Dr C R Marathe; Production Mgr, AHD: Dr S N Singh. Head Office: 'Kamdhenu', Senapati Bapat Marg, Pune 411016; Ph: 52621-2-3.Branch Offices -- Ahmedabad: Hari Sadan, Khadia Char Rasta, -380001; Calcutta: 7G, Gour Sunder Sett, PO Senthee, -700050; Delhi: 6-B Bhagwandas Nagar, Rohtak Rd, -110026; Hyderabad: Shop No 6, 17-82 Annapurna Industries Shopping Complex, -500660. Vaccines: Fowl pox, Marek's Disease, RD F/LaSota strain, RD Muktesswar. Brand Name: BAIF.

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Kale; Dep Dir Incharge: Dr S V Bhagwat. Vaccines: FD RD (Mukteswar, LaSota strains), Fowl pox, Salmonella coloured antigen, spirochaetosis. Mode of distribution: Free to departmental institutions only.

SRINI BIOLOGICAL LABORATORIES PRIVATE LIMITED, 13/6 Milestone, Panshet Rd, PO Girinagar, Pune 411025; Ph: 30241, Gram: Babcock; Gen Mgr: Dr V H Apte. Vaccines: Infectious Bronchitis (Mass Type) B Vet C, Fowl pox B P (Vet), I B Combined B P (Vet), Newcastle (LaSota strain & R_2B strain) B Vet C.

VENTRI BIOLOGICALS, Vaccine Div of Venkateshwara Hatcheries Pvt Ltd, 13/6 Milestone, Panshet Rd, PO Girinagar, Pune 411025; Ph: 442244, 445064 & 30241, Gram: Babcock; Gen Mgr: Dr B D Survashe; Quality Control Mgr: Dr G R Ghalsasi. Vaccines: Gumboro Disease, Marek's Disease. Brand Name: Ventri.

ORISSA

ORISSA BIOLOGICAL PRODUCTS INSTITUTE, Bhubaneswar 751003; Ph: 50243, Gram: Serologist; Offr Incharge: Dr P Dasgupta. Vaccines: FD fowl pox, RD (F & R_2B strains). Mode of distribution: Free to farmers through veterinarians.

PUNJAB

PUNJAB VETERINARY VACCINE INSTITUTE, PAU Campus, Ludhiana 141004; Dep Dir: Dr Tirath Singh. Vaccines: FD RD (F_1 & R_2B strains), fowl pox.

RAJASTHAN

REGIONAL VETERINARY BIOLOGICAL UNIT, New Colony, Jaipur 302001; Ph: 62171, Gram: Anivax; Jt Dir: Dr V R Ambwani. Vaccines: FX fowl pox, FD RD (Mukteswar), FD RD (F), FD fowl spirochaetosis. Mode of distribution: Supplies free thrcugh department channel and at cost to other States and Private hatcheries at IVRI rates.

TAMIL NADU

INSTITUTE OF VETERINARY PREVENTIVE MEDICINE, Ranipet 632403, North Arcot Dist; Ph: 233, Gram: Seruminst;Offr Incharge: Dr V M Sathiyanarayanan. Vaccines: FD Fowl Cholera, fowl pox, pigeon pox, RD (F & K strains).

UTTAR PRADESH

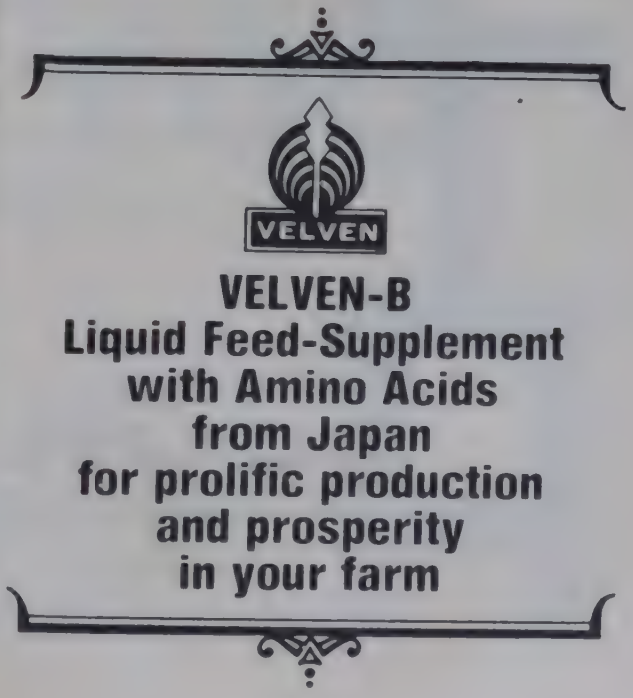
BIOLOGICAL PRODUCTS SECTION, AH Dept, Badshahbagh, Lucknow 226007; Ph: 75365, Gram: Vaccine; Dep Dir (AH) Incharge: Dr B B Naithani. Vaccines: FD RD (R_2B strain), FD RD (F strain), FD fowl pox (CEVL), FD fowl spirochaetosis. Mode of distribution: Free of cost to departmental institutions.

BIO-MED PVT LTD, KB-27 Old Kavi Nagar, Ghaziabad 201002; Ph: 43212; Factory: C-96 Site No 1, Bulandshahr Rd, Industrial Area, Ghaziabad 201001; Ph:46210; Mg Dir: Dr S P Garg; Dir-cum-Testing Incharge: Rajendra Prasad. Vaccines: Fowl pox 'BM' strain, Marek's 'HVT' strain, RD (F-1 & RB strain).

INDIAN VETERINARY RESEARCH INSTITUTE, Izatnagar/Mukteswar; Ph: 74008, 248 (Nainital), Gram: Sera, Izatnagar, & Vetex, Mukteswar; Head, Div of Biological Products: Dr Roshan Lall. Vaccines: FD fowl pox, RD & RD (F strain), Salmonella pullorum positive serum, Salmonella pullorum coloured and plain antigens, tuberculin (avian). Mode of distribution: Priced.

WEST BENGAL

BIOLOGICAL PRODUCTS DIVISION, Amalgamated Scheme, 37 Belgachia Rd, Calcutta 700037; Ph: 52-8032, Gram: Vetvax; Jt Dir: Dr Jahar Lal Ganguli. Vaccines: Fowl Cholera, Freeze Dried RD (F and R_2B strains), Fowl pox (CEVL & PPCEVL), Duck Plague.



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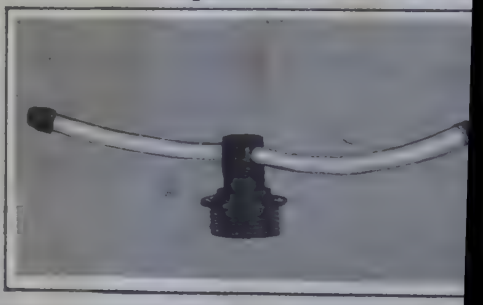
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Equipment Manufacturers

This list, arranged alphabetically, covers manufacturers of poultry equipment as well as feed mixing units and related supplies including fabricators of sophisticated egg and poultry processing plants. The list is followed by a Buyer's Guide, which groups these manufacturers according to the products they make, arranged alphabetically.

AB PULP PACKAGING PVT LTD, A-237 Okhla Industrial Area, Phase I, New Delhi 110020; Dir: Anil Bansal, Ph resi: 652227, 656947.

AGRIMECHA INDUSTRIES, 83 Shivajinagar, Pune 411005; Ph: 59774, 443395, Gram: Agromacind; Partner: Lt Col R N Sonone.

AGRO ENGINEERING PRODUCTS (DELHI) PVT LTD, 38 NDSE-Part I, New Delhi 110049; Ph: 698928, Gram: Agroproduct; Mg Dir: P A Menon,Ph resi:663720.Brand Name: Agro.

AKBERALLY ASSOCIATES, 5-9-42 New MLA Qtrs Lane, Basheerbagh, Hyderabad 500029; Ph: 220413.

AMBASSADOR INDUSTRIES, H6 B1 Mohan Coop Industrial Area, Badarpur, New Delhi 110044; Ph: 635131, Gram: Greenhouse, Tlx: 031-2060; Mg Partner: Deepak Sood, Ph resi: 634725; Partner: Shanti Sood, Ph: 273361. Branch: 147 Rashtrapathi Marg, Secunderabad 500003; Ph: 74113, Gram: United; Mgr: Ajay Sawhney. Brand Name: Ambassador.

AMZEL CARTONS, 1-7-68 Sarojini Devi Rd, Secunderabad 500003; Ph: 73309, 76278; Mg Partner: Khizer Ahmed; Mgr:A A Baig.

ANDHPA EXPANDED METAL MFG CO, B-25 Sanath Nagar, Hyderabad 500018; Ph: 29118, Gram: Gayatri; Partner: Shankar Rao Dagwale. City Off: Jambagh, Hyderabad; Ph: 46331.

ANNAPOORNA ENTERPRISES, Door No 24-2-10/2 Chaparalavari St, Near Syndicate Bank, Guntur 522003 -- N Vinayaka Rao.

ANU INTERNATIONAL, F-48 Bhagat Singh Market, New Delhi 110001; Ph: 344607; Partner: Anil Bansal, Ph resi: 652227, 656947.

APEX (INDIA) SERVICES CORPN, Rice Mill Compound, Chaklashi Bhagol, Nadiad 387001; Ph: 4012 (PP); Partner: Satish R Shah.

ARKAY ENGINEERING ENTERPRISE, 319 Mount Rd, Nandanam, Madras 600035; Ph: 440122; Prop: R K Nair.

ARVIND INDUSTRIES, Netaji Nagar, Nellore 524004; Ph: 1636, Gram: Arvind; Prop: K Soundarayya

AURORA INDUSTRIES, Udyog Bhawan, 8/98 Arya Nagar, Kanpur 208001;Prop:Jagdish Arora.

AZRA POULTRY EQUIPMENTS, 1 Miller Tank Bund Rd, Bangalore 560052; Ph: 72111, Tlx: 0845-680 APE IN. Factory: Shacoorabad Kengeri.

AZRA'S POULTRY EQUIPMENT, No 1 Miller Tank Bund Rd, Bangalore560052; Ph: 72111, 77273; Nissar Ahmed.

B I INDUSTRIES, 22-1-1040/9, Darulshafa Main Rd, Hyderabad 500024; Ph: 44752.

B K ALLIED INDUSTRIES, G T Rd, Near Water Works, Khanna 141401, Punjab; Ph: 2140, Gram: Beekay.

BALAJI PACKAGING INDUSTRIES, Plot No 76-77 MIDC, D-3 Block, Chinchwad, Pune 411019; Ph: 86632, 84704; Prop: Surendra Ghuwaliwala, Ph resi: 56401.

BARAKASO PRIVATE LIMITED, I B Patel Rd, Gautam Chemical Compound, Goregaon (East), Bombay 400063; Ph: 691171; Mg Dir: A P Sanghvi, Ph off: 315420, factory: 691171; Dirs: K A Sanghvi & H A Sanghvi. Brand Name: Barakaso.

BENAKA ENGINEERING WORKS, No 1749, I 'C' Main Rd, II Stage, Rajajinagar, Bangalore 560010; Ph: 351287; Prop: S Mahadevappa.

BEST EQUIPMENT, Nani Dhamarod, Palsana Tq, Surat Dist, Gujarat; Mg Partner:Chandrakant S Patel

BHAJAN SINGH AGRI MECHANICAL WORKS, G T Rd, Near Sethi Ka Dhaba, Opp Bus Adda, Doraha, Dist Ludhiana, Punjab.

BLUE CROSS FARMAIDS CO, 99 UB Jawahar Nagar, PB No 2143, Delhi 110007; Ph: 2918037, 2521334, Gram: Platray; Mg Partner: Joginder Dua; Techl Partner:

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Smt A Sachdev. Branch: 30A, Main Rd, Namakkal 637001; Mgr: V Arumugam Chettiar. Brand Name: Bluecross.

BLUE CROSS (INDIA), 24B, Syed Amir Ali Avenue, Calcutta 700017; Chief Exec: Dr D R Marwaha; Mgr: Mrs Sunita Anand, Ph resi: 431832.

CALCUTTA WIRE NETTING INDUSTRIES, 5113 Sirkiwalan Bazar, Delhi 110006; Ph: 524512.

CHAMPION INDUSTRIES CORPORATION, A-8/1 Sanatnagar, Industrial Estate, Hyderabad 500018; Ph off: 261619, resi: 36243, Gram: Champion. Sales Depot: 24 Kabra Complex, 61 M G Rd (Pan Bazar Side), Ranigunj, Secunderabad 500003; Ph: 821112.

CHAND ENGINEERING WORKS, Hanuman Chowk, Gurdaspur 143521, Punjab.

CHAND YASIN & CO, Chhatrapati Shivaji Maharaj Mandi, Basement, Palton Rd, Bombay 400001; Ph: 264328; Mg Partner: Chand Yasin Mulla, Ph resi: 8728785. Brand Name: Chand-Yasin.

CHANDRA INDUSTRIES, G T Rd, Jalandhar City 144001; Ph:73284; factory:75843.

CHHATTISGARH POULTRY FEED PRODUCTS, Industrial Estate, Bhilai; Ph: 5688; Mohindra Nath Bhattacharyya.

CHITALE COPOLYMERS, 695/A Sadashiv, Opp Vijay Cinema, Laxmi Rd, Pune 411030; Ph: 448851, 30697, Gram: Pipeman, Tlx: 145-537 DEMC IN; Chief Exec: A S Chitale, Ph resi: 440918. Factory: 139/84 Katraj Sat Rd, Pune 411009; Ph: 30797.

CIRUGIA DE LUXE PVT LTD, Bombay Mutual Annexe Bldg, Gunbow St, Bombay 400023; Ph:259502;Mg Dir:P R Puri,Ph:8227735.

CLIMATE CONTROL SERVICES PRIVATE LIMITED, 38 Sarojini Devi Rd, Secunderabad 500003; Ph: 77075, Gram: Climax; Mg Dir: S Dhaliwal; Sales Mgr: R Ulhas Rao. Brand Name: Otocare (disinfector), Humidaire (Humidifier).

COASTAL PACKAGINGS, D No 10-2-30 Women's College Rd, Guntur 522001; Ph: 24947, Gram: Coastpack; Prop: T R Prabhu; Factory: 5 Industrial Complex, Perecherla 522005, Guntur Dist.

CONTINENTAL PAPER MILLS, Mayithara Market PO 688539, Alleppey Dist, Kerala; Ph: 2408, Gram: Masindia; Mg Partner: R V Thampan; Partner: A R Varma. Brand Name: Maspack.

CORRPACK, 27 Old Market, West Patel Nagar, New Delhi 110008; Ph: 587704, 589513; Mg Partner: G D Chaudhry. Brand Name: Corrpack.

DAYAL POULTRY APPLIANCES, WZ-16 Lajwanti Garden, New Jail Rd, New Delhi 110046; Ph: 552081; Partners: Kabal Singh & Ram Singh Factory: C-160 Mayapuri Industrial Area Phase II, New Delhi 110027; Ph: 590393. Brand Name: Dayal.

"DEEP WOODS" POULTRY EQUIPMENT CO, 12 Hirji Jivraj Bldg, Aaimai Merwanji St, Dr Ambedkar Rd, Parel, Bombay 400012; Prop: Suhas Ramu D Sangle. Brand Name: Deep Woods.

DELUX PACKING INDUSTRIES, Kapoor Colony, Talab Rd, Old Faridabad 121002, Haryana; Ph: 3927 (PP).

DESH SEWAK INDUSTRIES, 212 Nangal Kotli, Bank of Barcda St, Gurdaspur 143521, Punjab; Mgr: Prit Pal Singh.

DHAVJEKAR & CO, Near National Park Gate, Borivli (E), Bombay 400092.

DHUMAL INDUSTRIES, Plot E-36, D Rd, MIDC, Satpur, Nasik 422007; Ph off: 30384, factory: 30684; Mg Partner: Anil Dhumal, Ph resi: 76084. Brand Name: Dhumal.

DIAMOND, B-16/8 Jhilmil Industrial Area, G T Rd, Shahdara, Delhi 110032; Ph: 204071, Gram: Chickbox; Mg Partner: S R Sethi, Ph resi: 204827; Gen Mgr: Indresh (Shammi). Brand Name: Diamond.

DIAMOND PACK, NA-407 Hoshiarpur Rd, Jalandhar 144004; Ph: 76170, 72593 (resi).

DIMPLE METAL WORKS, Near Veterinary Hospital, Rajpura 140401; Prop: Gurcharan Singh

ECONOMIC ROOFINGS LTD, No 1 Second Main Rd, R K Nagar, Raja Annamalai Puram, Madras 600028; Ph: 76341, 22181, 77339. Factory: Renigunta 517520, AP.

EGFO PACKAGING LIMITED, 6-3-347/17/5, Dwarakapuri Colony, Hyderabad 500482; Ph: 30267; Mg Dir: K Suchakar Reddy. Branch: Gudivada, Krishna Dist.

ESES, 8/3A Hatibagan Rd, Calcutta 700014; Ph: 431347. Brand Name: ESES.

EVERGREEN WIRECLOTH FACTORY PVT LTD, 3-D Maker Bhavan No 2, 18 New Marine Lines, PB No 11100, Bombay 400020; Ph: 312461 & 312706, Gram: Wiremesh, Tlx: 011-3244; Mg Dir: Chandrakant L Khagram. Brand Name: Evergreen.

EXCEL ENTERPRISES, 9B Ramakrishna Lane, Calcutta 700003; Ph: 555697; Mgrs: M K Sinha & T K Sinha. Brand Name: Excel.

FAB CAGES & INDUSTRIES, 1/1 Spencer Rd, Bangalore 560005; Ph: 577872; Partner: Jeevan Mandana. Brand Name: Fab Cages.

FAMOUS METAL WORKS, 10-2-284/A Jama Masjid, A-Battery Lane, opp ITI, Shantinagar Colony Rd, Hyderabad 500457; Ph: 220467; Prop: Shaik Hyder.

FARM EQUIPMENT ENTERPRISES, 32 Industrial Estate, Jhilmil Taharpur, Shahdara, Delhi 110032; Ph: 203426, 202470, Gram:

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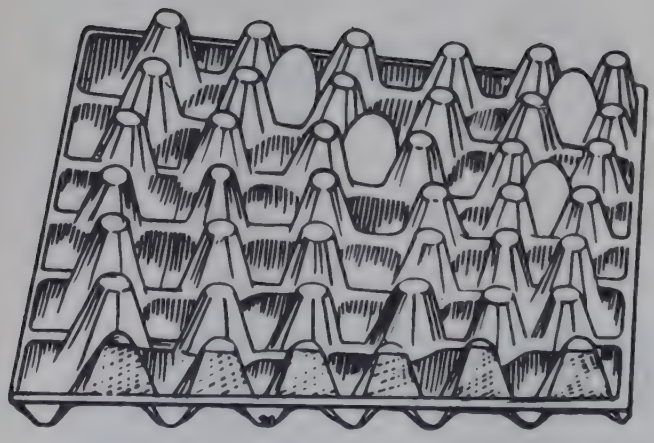
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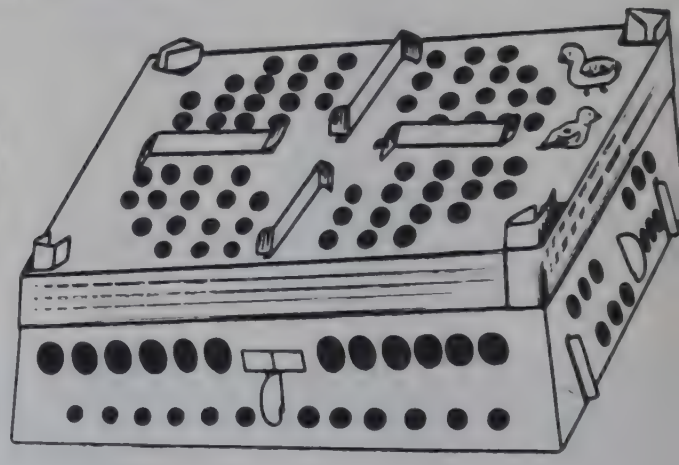
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GARGO PRIVATE CORPORATION, Bhuteshwar Rd, Mathura 281004; Ph: 3728; Partner: D N Garg.

GARSONS ENGINEERS PRIVATE LIMITED, 4 Navroji Vakil St, Nana Chowk, Bombay 400007; Ph: 381281; Jt Mg Dirs: Harish Garware, Shirish Garware, Ph resi: 4225571; Exec Dir: Satish Garware. Brand Name: Garsons.

GARWARE BEVERAGES, 4 Navroji Vakil St, Nanachowk, Bombay 400007; Ph: 381281; Chief Execs: Satish Garware, Harish Garware,Shirish Garware,Ph resi:4225571.

GAYATHRI PACKAGING, C-259 Industrial Estate, 1st State, Peenya, Bangalore 560058; Ph: 38029, 568587; Mg Partner: S Balaram.

GOLDEN PACKAGING WORKS, Kottoor Valiadathu, Udayamperoor 682307, Kerala; Prop: K T Mathew.

GOLDPLAST INDUSTRIES, 2096/97 Kailash Market, Secunderabad 500003; Ph: 821423.

GOODWYN INDUSTRIES CORPORATION (INDIA), "Goodwyn House", 95-A Shankarshet Rd, Pune 411037; Ph: 67445; Mg Partner: D K Mehta, Ph resi: 26927.

GOVERNMENT OF KERALA — Central Hatchery, Chengannur 689122, Kerala; Ph: 277; Production Mgr: Dr K O Oommen; Asst Engineer: G Raveendran Nair.

GREAVES COTTON & CO LTD, Engine Div, 1 Dr V B Gandhi Marg, Bombay 400023; Ph: 271524, Gram: Greaves, Tlx: 011-2517; Gen Mgr: S Sethuraman. Regional Offices -- Bombay: Ph: 271524; Calcutta: Ph: 264326; Madras: Ph: 20301; New Delhi: Ph: 310261.

GURDASPUR ENGINEERING WORKSHOP COOPERATIVE INDUSTRIAL SOCIETY LTD, THE, G T Rd, Gurdaspur 143521, Punjab; Gram: Cooperate; Pres: Inder Singh. Brand Name: Cooperate.

GWALIOR POULTRY FARM, Alija-Kotla, Hyderabad 500023; Ph: 44965; Prop:N M Gwalior.

HARDCASE ENGINEERING WORKS PVT LTD, 5-3-325 Mahatma Gandhi Rd, Secunderabad 500003; Ph: 73567, 73446, Gram: Feed Plant; Mg Dir: G S Shete, Ph resi: 73015; Sales Dir: Rajiv Shete; Tech Dir: Hemant Puntambekar. Factory: Nacharam Indl Area, Secunderabad.

HARYANA PACKAGES (P) LTD, Plot No 386, Industrial Area, Panchkula, Haryana; Ph off: 27278; Dir: Davinder Singh, Ph resi: 24174.

HARYANA WIRE NETTING WORKS, Chawri Bazar, Delhi 110006; Ph: 265144, 266325.

HATCHWELL INCUBATORS, 5-9-42 New MLA Qtrs Lane, Bashir Bagh, Hyderabad 500029; Ph: 220413.

HATCHWELL INDUSTRIES, G T Rd, Gurdaspur 143521;Partner:Tirath Singh,Ph resi:458.

HYDERABAD INDUSTRIES LIMITED, Sanatnagar, Hyderabad 500018; Ph: 262401 (10 lines), Gram: Asbestos, Tlx: 0155-210 & 561; Mktg Div (Plg & Dev): P Ramachandra Rao. Brand Name: Charminar Minikor.

INDIA PACKAGING PRODUCTS PVT LTD, 5th Mile, Bellary Rd, Post Bag No 2480, Bangalore 560024; Ph: 30817, 32257, Gram: Inpack.

INTERCONT AGENCIES, 65 Mahatma Gandhi Rd, opp Bank of India, Hutatma Chowk, Bombay 400023; Ph: 274721; Mg Partner: V A Mohile.

ISMAILJI JIWAJI TINWALA, 10/151 Khatikwada, Hathipol, Udaipur 313001; Ph: 2483.

JASPAL STEELS & ALLIED INDUSTRIES (REGD), Chandigarh Rd, Khanna 141401, Punjab; Ph: 3044.

JAYEMS PARKIM PRIVATE LIMITED, Great Western Bldg, 130-132 Shahid Bhagat Singh Rd, Bombay 400023; Ph: 245118, Gram: Jayems; Dir: K G Narumalani, Ph resi: 4951885. Works: Plot No A-117, Road No 22, Wagle Industrial Estate, Thane 400604; Ph: 595470, 591508,Gram:Parkim.

JEETMULL JAICHANDLALL (P) LTD, 105 Abdul Rehman St, Bombay 400003; Ph: 348123; R K Chouraria. Branch: 109 Netaji Subhas Rd, Calcutta 700001; Ph: 339811, 339812. Associates: J J Lall & Co, 10 Rasappa Chetty St, Madras 600003.

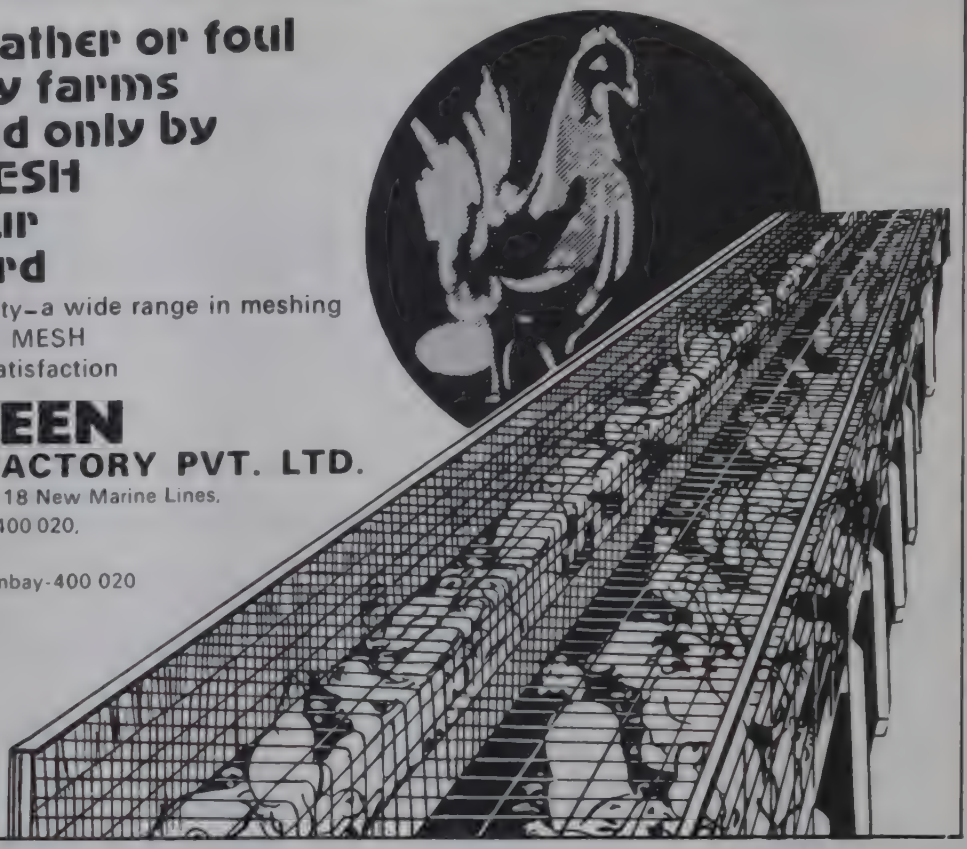
JINDAL ALUMINIUM LTD, 16th Km, Tumkur Rd, Bangalore 560073; Ph: 38255 (4 lines) & 38697. Branch -- New Delhi: 1/6B Asaf Ali Rd, -110002; Ph: 271712, 278183.

K L B INTERNATIONAL, C-51 Friends Colony, New Delhi 110065; Ph: 630908, 637622, Tlx: 031-4051; Mg Dir: K Lal Bhakri.

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KALIA TRADING CO, Andheria Bagh, Mahipalpur Rd, New Delhi 110030; Naresh Kalia.

KALIKA MANUFACTURERS & SUPPLIERS, Tinkonia Bagicha, Cuttack 753001; Prop: Gopinath Mahapatra. Brand Name: Nilachakra.

KEMCON, Eros Apartments, 8th floor, 56 Nehru Place, New Delhi 110019; Ph: 6431642, 6432011, Gram: Keggfarms, Tlx: 031-4590; Pres: V S Kapur. Factory: Railway Rd, Gurgaon, Haryana.

KENT ENGINEERING, 11th Main Rd, Saraswathipuram, Mysore 570009; Ph: 243039; Mgr: S V John

KIRAN ENGINEERING WORKS, G T Rd, Batala 143505, Gurdaspur Dist, Punjab; Ph: 98, Gram: Kiran. Distributors: Shiv Shankar Engineering Estate, Badli, Delhi; Ph resi: 7110384, 7115764.

KIRAN WIRE NETTING CO, 18 Raja Woodmunt St, PB No 2669, Calcutta 700001; Ph: 253463, 250420, 351503 (resi), Gram: Kiranmesh; B S Choraria. Branch: 145 Rasappa Chetty St, Madras 600003; Ph: 32496, 38608. Brand Name: Kiran.

KIRLOSKAR ELECTRIC CO LTD, Rajaji Nagar Industrial Suburb, Bangalore 560010; Ph: 35311, Gram: Raviudaya; Mg Dir: R Davi L Kirloskar; Gen Mgr: B G Bhakey.

KORPAX, Eros Apartments, 8th floor, 56 Nehru Place, New Delhi 110019; Ph: 6431642, 6432011, Gram: Keggfarms, Tlx: 031-4590; Pres: V S Kapur. Factory: Railway Rd, Gurgaon, Haryana.

KOSALA ENTERPRISERS, Industrial Estate, Sambalpur 768120, Orissa; Ph: 1766, Gram: Kosalas; Prop: K M K Murty.

KRISHNA INSTRUMENTS & APPLIANCES CO, 230 Arun Chambers, Tardeo Rd, Bombay 400034; Ph: 372213, 370922. Brand Name: KIA-TF.

KUMAR INDUSTRIES, Kendaghat 173215, Himachal Pradesh; Ph: 41; Prop: V K Sharma. Brand Name: V-Brand.

KWALITY FABRICATORS, C1-19 GIDC Estate, Antalia, Bilimora 396321; Ph off: 2674, factory: 2396, farm: 2660, resi: 2725; Partner: Ishwarlal L Mistry; Mgr: Dolatrai L Mistry.

LARSEN & TOUBRO LIMITED, L & T House, Ballard Estate, PO Box 278, Bombay 400038; Ph: 268181, Gram: Larsenbro, Tlx: 2246; Food Processing Div Mgr: S D Pandit.

LATIF & COMPANY, 279/281 Nagdevi St, 2nd floor, Above Bank of Maharashtra, Bombay 400003; Ph: 335570, 335571, Gram: Poltryking; Mgr: Jalal H Momin, Ph resi: 583198.

LIGHT ROOFINGS LIMITED (in collaboration with Techados Monterry, Mexico), 218 Lloyds Rd, 1st floor, Gopalapuram, PB No 4909, Madras 600086; Ph: 470725/26/27, Gram: Literoof, Tlx: 041-6567; Mg Dir: M M Rafi; Sales Offr: K Ramasekara Rao; Regional Mgr (South): M A Razvi. Regional Offices -- Bombay: Block A/2 Dwarakapuri, Lal Bahadur Shastri Marg, Kurla, -400070; Ph: 5130060, 5131165; Calcutta: 9/2B, Talbagan Lane (Orient Row), Park Circus, -700017; New Delhi: 1076 Hardhian Singh Rd, Karol Bagh, -110005; Ph: 5725011, 5714418; Regional Mgr: V Sivaraj. Brand Name: Literoof.

LIVESTOCK FEED & EQUIPMENT CO, 202 Poonamalli High Rd, Madras 600029; Ph: 422349 & 421243, Gram: Lisfec; Prop: D Radhakrishnan. Brand Name: Bell.

MAC ENGINEERS, U-53 Shakkarpur Extn, New Delhi 110051; Ph: 523271.

MAHARASHTRA STEEL WORKS, Baramati 413102, Pune Dist; Prop: K P Banker.

MASAND INDUSTRIES, G T Rd, PB 39, Jalandhar 144001; Ph:72241, Gram: Masmot; Tech Dir: C W Masand. Brand Name: Mastron.

MECHANICAL ASSEMBLY SYSTEMS (INDIA) PRIVATE LIMITED, PO Mayithara Market 688539, Alleppay Dist, Kerala; Ph: 408 (Shertallai); Chmn: T V Rangarajan; Mg Dir: R V Thampan.

MEHTA AGENCIES, 204 Govrishankar North Bldg, Dandia Bazar, Baroda 390001; Ph: 553315, Gram: Feedspare; Partner: V C Mehta.

MILTAN CHEMEPLAS CORPORATION, 17/18 S S I Area, Rajajinagar, PB No 1012, Bangalore 560010; Ph: 351937; Mg Partner: M R Miltan.

MODERN ROOFINGS LIMITED (Jt venture with APSSIDC), Tadimalla 534305, via Nidadavole (RS), West Godavari Dist, AP; Ph: 31, Gram: Roofsheets, Nadiadavole; Mg Dir: K Rama Rao; Exec Dir: B Lakshmipathy; Dir (Mktg): K Ravi Kumar. Regional Offices: Bangalore, Bombay, Calcutta, Hyderabad, Madras & Vijayawada. Brand Name: Modernroof.

MODERN WIRENETTING MANUFACTURING COMPANY, B-233, Road No 9, Vishwakarma Industrial Area, Jaipur 302013; Ph off: 832377, resi: 77041, 78893, Gram: Wiremesh; Partner: R C Gurbani.

MOHAN PAPER MOULDINGS (P) LTD, 235, Sector 18-A, Chandigarh; Ph: 29753, 26277, Gram: Eggtrays; Mg Dir: Tapishwar Kumar. Brand Name: Mohan.

MYSORE STEEL WIRES, Dyavasandra Industrial Area, Whitefield Rd, Bangalore 560048; Ph: 58436, 58545. City Sales Depot: 5 Shantappa Lane, Bangalore 560002; Ph: 224914.

NAIR BROTHERS, Near Octroi Naka, 13, Hadapsar, Poona 411028; Ph: 70779; Partner: T P G Nair. Brand Name: Glow Star 500, Sumitara.

NATIONAL REFRIGERATION WORKS, 3 Netaji Subhas Marg, Daryaganj, Delhi 110002; Ph: 274041.

OCEAN SURGICAL COMPANY, 51/2 Desh Bandhu Gupta Rd, opp Khalsa College, New Delhi 110005; Ph: 5716011, 5723396, Gram: Oshsurgico; Chief Exec: S K Bhasin.

PACKERS PRODUCTS, 10/58 Industrial Area, Kirti Nagar, New Delhi 110015; Ph: 586228, 583733.

PANCHAL BROTHERS, Char Rasta, Kadodara 396326, Surat Dist, Gujarat; Ph: 61, 161; Partners: Chumpaklal G Panchal, Maheshkumar G Panchal.

PAPCOCK FARMS, INC, THE, Harni Rd, Baroda 393006; Ph: 52691 & 51305; Prop: Dr Jawahar D Patel.

PAPER WORLD INDUSTRIES,13/3D Patwar Bagan Lane (near Raja Bazar),Calcutta 700009; Ph: 358720; Partners: Jamal Akhter, Nehal Akhter.

PARVEEN VACCINATOR COMPANY (REGD), 176/1 Parwana Rd, Khureji Khas, Delhi 110051; Ph: 241011; Prop: Mohd Mukeem.

PATEL TRUNK FACTORY, Mahatma Gandhi Rd, Anand 388001, Kaira Dist, Gujarat; Ph: 460 (factory), 1319 (off), 1344 (resi).

PEICO ELECTRONICS & ELECTRICALS LIMITED, Light Dept, Band Box Bldg, 254-D Dr A B Rd, Worli, PB No 6598, Bombay 400018; Ph: 4220590, 4930311, Gram: Philiho, Tlx: 011-71540; Mktg Mgr -- Lamps & Allied Industries: G Venkatesan; Offr Tech Information Dept: P S Datta. Regd Off: 7 Justic Chandra Madhab Rd, Calcutta 700020. Brand Name: Philips.

PIYUSH WIRENETTING INDUSTRIES, Ashabhai Nathabhai Estate, Station Rd, Petlad 388450, Gujarat; Ph off: 330, resi: 630, Gram: Piyushnet; Mg Partner: Prakash H Desai; Mgr: Harshad M Patel. Brand Name: Camel.

POLYPROFILES, A Div of Poly Enterprises Pvt Ltd, M A Bldg, Dr Motibai Rd, Ahmedabad 380002; Ph: 363707; Dirs: Rohitkumar J Gandhi & Pinakin J Gandhi. Regl Off: 46 Veer Nariman Rd, Fort, Bombay 400001; Ph: 252197.

POPULAR APPLIANCES, New Market Bldg,Sahidnagar, Bhubaneswar 751007; Chief Exec: A K Mohanty

POULTEK ENGINEERS, Idigarai Rd, PO NGGO Colony, Coimbatore 641022; Prop: K Raju. Brand Name: Poultek.

POULTRY CAGE ENTERPRISES, 465, 10th Main, Viveknagar, Bangalore 560047; Ph:579730; Prop: M J Arangaden.

POULTRY CARE, 4/1A New Boat Club Rd, Pune 411001;Ph:67181;Partner:G E Karachiwala.

PRADEEP WIRE INDUSTRIES, D-64/29, K-4-1 Bank Colony, Sigra, Varanasi 221010; Ph: 52044; Mgr: Om Prakash Jain.

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PREMIER IRRIGATION EQUIPMENT LTD, 17/1-C Alipore Rd, Calcutta 700027; Ph: 457455, 457626 & 455302. Branches -- Bangalore: Mysore Rd, -560026; Ph: 601670, 605639; Hyderabad: Barkatpura, PB No 1255, -500027; Ph: 65024.

PULP N' PACK PRIVATE LIMITED, Tadimalla 534305, via Nidadavole (RS), West Godavari Dist, AP; Ph: 31, Gram: Pulpack, Nidadavole; Chmn: K Rama Rao, Ph resi: 2 (Nidadavole Exch).

PUNJAB POULTRY DEVELOPMENT CORPORATION LTD, THE, Kothi No 517, Sector 33-B, Chandigarh; Ph: 28491, 20698, Gram: Poltrycorp; Mg Dir: M Lal Manzula, IAS; Gen Mgr: Dr G S Chahal. Egg Tray Plant: Village Uppli, District Sangrur; Phone: 630; Mechanical Engineer: R K Sharma.

QUALITY WIRE PRODUCTS, 3D Maker Bhavan No 2, 18 New Marine Lines, Bombay 400020; Ph: 310024, Tlx: 011-3244 MESH IN; Prop: H L Thakker. Factory: W-160 TTC, MIDC, Thane Belapur Rd, Vill Pawne, PO Turthe, Dist Thane.

RAINBIPDS IRRIGATION PRIVATE LIMITED, 3355 Hauz Qazi, Delhi 110006; Ph: 278183, 267971; Mg Dir: Premchand Gupta; Sales Mgr: C Shantharaj. Brand Name: Jindal.

RAJDHANI POLYPACK INDUSTRIES, 5-1-221 Sunder Bhavan, Jambagh, Hyderabad; Ph off: 56607, resi: 556607. Factory: Plot No 90/H,IDA Jeedimatla, Ranga Reddy Dist; Ph: 9622 ext 167.

RAKI CAGE WORKS, Renigunta Rd, Tirupati, AP; Ph: 2881.

RAM ENGINEERING WORKS, WZ-18 Lajwanti Garden, Jail Rd, New Delhi 110046; Ph: 552081, 590393. Brand Name: REW.

RAMA VENKATARAJAM SON, Swamy Vivekanand Rd, Warangal 506002; Ph: 3263.

RAVIFROST, HO: Ambala Cantt; Ph: 20610. Branch: 3831 Pataudi House Rd, Delhi 110006; Ph: 270616.

ROYAL MANUFACTURING CO, Aliwal Rd, Batala 143505, Dist Gurdaspur; Prop: Kanwaljit Singh Sandhu

SKM FARM ENGINEERING PRIVATE LIMITED, Chavadipalayam Pudur Rd, Nanjaiuthukuli,

Modakkurichi 638104, Dist Periyar, TN; Ph: 2663 (Modakkurichi), 49 & 63 (Nathagoundenpalayam), Gram: Poultry, Tlx: 0856-226 SKM IN; Mg Dir: S K Mylsamy Gounder; Dir: S Karthikeyan. Brand Name: SKM.

S N PAUL & BROS, 186 Old China Bazar St, Calcutta 700001; Ph: 22-3541, 22-7446, Gram: Alliodtred.

S NAYAK & BROS, 109 Netaji Subhas Rd, Calcutta 700001; Ph: 331996. Brand Name: Nayak.

S R STEEL INDUSTRIES, Hebbal Farm Post, Bellary Rd, Bangalore 560024; Ph: 30989, Gram: Steeludyog; Prop: K Madhu.

SAGAR TRADING CORPORATION, Goverdhan Rd, Mathura 281004; Partner: P C Agarwal.

SERVOTECH ENGINEERS PRIVATE LIMITED, B-21/27 Commerce Centre, 2nd floor, Tardeo Rd, Bombay 400034; Ph: 370325-29, Gram: Servotech, Tlx: 011-3503. Works: Novelty Silk Mill Compound, Vivekanand Rd, Bombay 400068; Ph: 652974, 652629.

SHAKTI ENGINEERING WORKS, G T Rd, Batala 143505, Punjab; Ph: 267, 1367 (resi), Gram: Shakti.

SHVET PACK PRIVATE LIMITED, 5-8-512/19 Abids Shopping Centre, 1st floor, Chirag Ali Lane, Hyderabad 500001; Ph: 38358, Gram: Shvet; Mg Dir: A S Raju; Dirs: N R Raju, R N Raju, M Kurian. Regd Off & Factory: 18-D, II, Phase-I, IDA, Patancheru 502319, Dist Medak, AP; Ph: 445. Brand Name: Shvet.

SOMANI INTERNATIONAL CORPORATION, 1510 Maker Chambers V, Nariman Point, Bombay 400021; Ph: 230344, 223543, 223549, Tlx: 011-6970 ADL IN, 011-5321 TSP IN; President: Vinay R Somani.

SOUTHERN ASBESTOS CEMENT LIMITED, 739 Anna Salai, Madras 600002; Ph: 82006. Offs: Bangalore, Cochin, Hyderabad, Pune, Vijayawada. Brand Name: Ramco.

SOUTHERN FARM FABRICATIONS PVT LTD, B-6 Sidco Industrial Estate, Hosur, Dharmapuri Dist, Tamil Nadu; Ph: 6638 (Spicot Exch); Mgr, Eqpt Div: Roy K Daly; Head, Dev Div: A B Arulappan. Regd Off: St Patrick's Complex, 3rd floor, Brigade Rd, Bangalore 560025; Ph: 562738, 562749, Gram: Babcock, Tlx: 0845-604; Mg Dir: David J Lobo; Dir & Chief Exec: Winston V D'Cruz; Sr Mgrs, Poul Ops: Keith J Rosario, Dr James Gnanaolivu. Brand Name: Deejay.

SOUTHERN POWERSYSTEM PVT LTD, 5 Smith Rd, Madras 600002; Ph off: 87425 & 810653, resi: 73403, Gram: Captivepower, Tlx: 7480 SPS IN; Dir: V Ramabhadran.

SPECTOMS ENGINEERING PVT LTD, Purshottam Estate, Bahucharaji Rd, Baroda 390018; Ph: 559920 (2 lines), Gram: Spectoms; Tlx: 0175-334; Mg Dir: Arvind A Shah; Dir: Navin A Shah.

SRI SAI WIRE PRODUCTS, 7-2-1087/3/A Sanathnagar, Hyderabad 500018; Ph: 261760, Gram: Dechem; Mg Partners: Amit Kumar, Nabu Ram.

SRI UDAY ENTERPRISES, 11-2-396, opp Govt Hospital, Nampally, Hyderabad 500001; Ph: 36448; Vijay Singh. Brand Name: Uday.

SRI VENKATESWARA ENTERPRISES, Shadnagar, Chintal Kunta, Vijayawada Rd, Saroornagar, Hyderabad 500035; Ph: 59561; Partner: V Seetarama Reddy

SRIKESH ENGINEERING, Noble Chambers, 11 Ghoga St, Fort, Bombay 400001; Ph: 250819; Partner: Hemen B Shah.

STANDARD ROOFINGS PRIVATE LIMITED, THE, 18-1-274 Umamaheswar Bldgs, Bhavani Nagar, Tirupati 517501; Ph: 2439 (PP); Exec Dir: K H Prasad. Regd Off: Peddibhotlavari St, Governorpet, Vijayawada 520002; Ph: 63931; Mg Dir: P Satyanarayana, Ph resi: 74110. Factory: Sri Kalahasthi Industrial Estate, Rachagunneri, Chittoor Dist, AP; Ph: 23 (Maddiledu). Regional Off: Hyderabad: 5-9-36 Basheerbagh, -500029; Ph: 223015; Dir: M Krishnamurthy; Madras: Shop No 6, Parsn Complex, 204 Mowbrays Rd, Alwarpet, -600018; Ph: 454324. Brand Name: Standard.

STANDARD WIRE PRODUCTS, 83 Maharashi Karve Marg, Bombay 400002; Ph: 297257, Gram: Stanproduk, Tlx: 011-5134 SWP IN; Partner: H C Shah. Factory: 8B Kurla Industrial Estate, Ghatkopar, Bombay 400086; Ph: 5125868. Brand Name: SWP.

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TRINITY EXPORTS, 303 Doctor House, 14 Peddar Rd, Bombay 400026; Ph off: 364393; factory: 5129016; Chief Exec: P R Shah, Ph resi: 8228421.

TROIKA PROCESSES PVT LTD, 6th floor, Embassy Centre, Nariman Point, Bombay 400021; Ph: 234429, Gram: Trochnics, Tlx: 011-5335 TROK IN; Mg Dir: P G Bhandari; Dirs: O P Agarwal, R S Jhaveri, R K Chopra.

V N INDUSTRIES, 204 Divanji Chambers, Dandia Bazar, Baroda 390001; Ph: 553315, Gram: Feedspare; Prop: V C Mehta.

V P G TRADING, 7/7-A Avanashi Rd, Chinniampalayam, Coimbatore 641062; Ph: 87456; Prop: A S Varadharajan. Brand Name: VPG.

VASMY TRADE LINKS, 10-2-30 Women's College Rd, Guntur 522001; Ph: 24947; Mg Partner: Mrs T Aruna, Ph resi: 24544; Mgr: T R Prabhu; Commercial Adviser: M R Gopalchary. Branches: Challapalli: 2/142 Bandar Rd, Divi Tq, Krishna Dist; Gudivada: 14/127-3 CVR Bldgs, Station Rd; Hyderabad: 16-2-705/5/8 Malakpet, Vijayawada Highway, -500036; Tanuku: 32-15/2 Velpur Rd; Vijayawada: 27/32/11 Dunnavari St, Governorpet.

VENUS TRADING COMPANY, Dr Radhakrishnan Nagar, Tiruvanmiyur, Madras 600041; Ph: 411612; Mgr: K Ramamoorthy

VETERINARY EQUIPMENT COMPANY, 141/A Brigade Rd, (behind Shoolay Police Station), Bangalore 560025; Ph: 53415; Partner: Sunil P Sadanandan.

VICTORY AGRO-INDUSTRIES, Hennur Rd, Lingarajapuram Extn, Bangalore 560005; Ph: 55881, Gram: Victory; Chmn: C Nataraj

VIKAS INDUSTRIES, Jail Rd, Raipur 492001, MP; Ph: 25955.

VIRAR AGRO INDUSTRIES, Jiwan Rama Patil Bldg, Chandansar Rd, At Naringi, PO Virar 401303, Vasai Tq, Thana Dist, Maharashtra; Partner: S B Mehta. Brand Name: HEM.

VIRTUE PACKAGES, Globe Colony, Industrial Area, Jalandhar; Ph off: 73736, resi: 2237, 2537.

VISAKA ASBESTOS CEMENT PRODUCTS LIMITED, 6-3-1089/C Gulmohar Avenue, Somajiguda, Hyderabad 500482; Ph: 226029, Gram: Visasbecem; Sales Mgr: P N Mukhopadhyay. Branches: Bangalore: 37/1 Industrial Suburb, Yeshwanthpur, -560022; Madras: 6 Kelley's Rd, Kilpauk, -600010. Brand Name: Visaka.

VULCAN-LAVAL LIMITED, Dapodi, Pune 411012; Ph: 82821-2-3, Gram: Nordic, Tlx: 0145-219/469; Dep Gen Mgr (Sales):R Bhutani.

WAVIN INDIA LTD, Plot 65 & 66, Ambattur Industrial Estate, Madras 600086; Ph: 632741, 633153. Brand Name: Wavin.

WIRENETTING INDUSTRIES CORPORATION, 76 Rundallis Rd, Vepery, Madras 600007; Ph: 33577, Gram: Wovenmesh; Partner: Prakash.

ZEENATH ENTERPRISES, 5-1-750/10 Haridas Market, Kothi, Hyderabad 500001; Ph: 46722; Prop: Mohd Siraj Ahmed.

ZENITH IRON WORKS, Zenith House, 46 Abdul Rehman St, Bombay 400003; Ph: 321315, 347610, Gram: Perforated. Factory: 158 Bombay Agra Rd, Mulund, Bombay 400080; Ph: 5601234.

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D N ENTERPRISES, 7-2-1854 Fatehbagh, Near Moosapet (Mahalaxmi Glass Factory), Sanathnagar, Hyderabad 500018; Ph:262392.

DALIP BOX FACTORY, Kishan Pura, Baldev Nagar, Jalandhar 144004; Ph factory: 74374 PP, resi: 76411 PP.

DIAMOND POULTRY EQUIPMENTS, A-44 Vivek Vihar, Phase II, Delhi 110032; Ph: 204071; Mg Partner: Smt Sudarshan Sethi; Gen Mgr: Sanjeev Sethi. Brand Name: Diamond.

ELECTRON & ELECTRONS, Mist House, 695-A Laxmi Rd, Opp Vijay Cinema, Poona 411030; Ph: 448851, Gram: Pipeman, Tlx: 145-537 DEMC IN; Mg Partner: Arvind S Chitale, Ph (resi): 440918. Product: Environmental Conditioning System. Brand Name: ECS.

(Contined on page 457)



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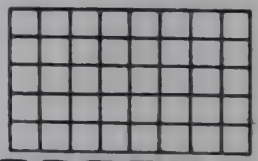
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Agro Engineering Products (Delhi) Pvt Ltd
B I Industries
B K Allied Industries
Goodwyn Industries Corporation (India)
Hardcase Engineering Works Pvt Ltd
Jaspal Steels & Allied Industries
Jayems Parkim Pvt Ltd
Kiran Engineering Works
Masand Industries
Mehta Agencies
Servotech Engineers Pvt Ltd
Shakti Engineering Works
Spectoms Engineering Pvt Ltd
Trcika Process Pvt Ltd
V N Industries
V P G Trading

FILLER FLATS (MOULDED PAPER PULP)

AB Pulp Packaging Pvt Ltd
Continental Paper Mills
Egfo Packaging Ltd
G Claridge & Co Ltd
Gayathri Packaging
Haryana Packages (P) Ltd
Mohan Paper Mouldings Pvt Ltd
Paper World Industries
Pulp n' Pack Pvt Ltd
Punjab Poultry Development Corpn Ltd
Shvet Pack Pvt Ltd
Virtue Packages

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Blue Cross Farmaids Co
Chand Yasin & Co
Dayal Poultry Appliances
Farm Equipment Enterprises
Latif & Company
Zeenath Enterprises

GENERATORS

Greaves Cotton & Co Ltd
Kirloskar Electric Co Ltd
Southern Powersystem Pvt Ltd

GRADERS & CANDLERS

Aurora Industries
Azra's Poultry Equipment
Dayal Poultry Appliances
Farm Equipment Enterprises
Gargo Private Corporation
Gurdaspur Engineering Workshop Coop Industrial Society Ltd
Hardcase Engineering Works Pvt Ltd
Kalika Manufacturers & Suppliers
Maharashtra Steel Works
Masand Industries
Prem Poultry Appliances

HOUSING STRUCTURES

Economic Roofings Ltd
Hyderabad Industries Ltd
Light Roofings Ltd
Modern Roofings Limited
Southern Asbestos Cement Ltd
Standard Roofings Pvt Ltd
Visaka Asbestos Cement Products Ltd

INCUBATORS

Aurora Industries
Chand Engineering Works
Dayal Poultry Appliances
Desh Sewak Industries
Excel Enterprises
Farm Equipment Enterprises
Gurdaspur Engineering Workshop Ccop Industrial Society Ltd
Hatchwell Industries
Kemcon
Maharashtra Steel Works
Masand Industries
Prem Poultry Appliances
Ram Engineering Works

INFRA-RED HEATING LAMPS FOR BROODING

Peico Electronics & Electricals Ltd

INSULATION MATERIAL

Delux Packing Industries
Kalika Manufacturers & Suppliers

LEG & WING BANDS

Aurora Industries
Diamond
Gargo Private Corporation
Kalika Manufacturers & Suppliers
Miltan Chemeplas Corporation

MATERIAL HANDLING EQUIPMENT

Agro Engineering Products (Delhi) Pvt Ltd
Srikesh Engineering

PAPER PULP MOULDING MACHINES

Anu International
Mechanical Assembly Systems (India) Pvt Ltd

PIPES & TUBES

Wavin India Ltd

PLUCKERS, SCALDERS, ETC

Blue Cross Farmaids Co
Desh Sewak Industries
Dhumal Industries
Farm Equipment Enterprises
Gargo Private Corporation
Gurdaspur Engineering Workshop Coop Industrial Society Ltd
Hatchwell Industries
Kiran Engineering Works
Masand Industries

POULTRY/EGG PROCESSING PLANTS (SEMI-MECHNICAL)

Aurora Industries
Blue Cross Farmaids Co
Farm Equipment Enterprises
Gurdaspur Engineering Workshop Coop Industrial Society Ltd
Larsen & Toubro Ltd (Designers)
Vulcan Laval Ltd (Designers)

POULTRY/EGG PROCESSING PLANTS (AUTOMATIC)

Garsons Engineers Pvt Ltd
Larsen & Toubro Ltd (Designers)
Somani International Corporation
Vulcan-Laval Ltd (Designers)

RENDERING PLANTS

Garsons Engineers Pvt Ltd

SCIENTIFIC INSTRUMENTS

KLB International

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Ambassador Industries
Chitale Copolymers
Corrpack
Dhumal Industries
Hatchwell Incubators
Jindal Aluminium Ltd
Premier Irrigation Equipment Pvt Ltd
Rainbirds Irrigation Private Ltd
Virar Agro Industries

THERMOMETERS

Krishna Instruments & Appliances Co
Kumar Industries

TRAP NESTS

Aurora Industries
"Deep Woods" Poultry Equipment Co
Diamond
Friends Farm Equipment
Friends Steel Industries
Gargo Private Corporation
Kalika Manufacturers & Suppliers
Popular Appliances
S R Steel Industries

VACCINATORS

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Dayal Poultry Appliances
Diamond
Garsons Engineers Pvt Ltd
Parveen Vaccinator Co
Somani International Corpn

VETERINARY SURGICAL INSTRUMENTS

Cirugia De Luxe Pvt Ltd
Diamond
Ocean Surgical Co
Parveen Vaccinator Co

WATER PURIFICATION EQUIPMENT

Garware Beverages

WEIGHING BALANCES

Arkay Engineering Enterprises

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Azra Poultry Equipments
Champion Industries Corporation
Evergreen Wirecloth Factory Pvt Ltd
Modern Wirenetting Mfg Co
Swiss Welded Mesh Co Pvt Ltd
Zenith Iron Works

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Calcutta Wire Netting Industries
Champion Industries Corporation
Dimple Metal Works
Evergreen Wirecloth Factory Pvt Ltd
Farm Equipment Enterprises
Haryana Wire Netting Works
Jeetmull Jaichandlall
Kiran Wire Netting Co
Mysore Steel Wires
Piyush Wirenetting Industries
Pradeep Wire Industries
Sri Sai Wire Products
Standard Wire Products
Trinity Exports
Wirenetting Industries Corpn
Zenith Iron Works

EQUIPMENT MANUFACTURERS

(Continued from page 451)

GOLD PLAST INDUSTRIES, 15-8-377/12 Feelkhana, 1st Floor, Hyderabad 500012; Ph: 42240. Factory: Aziz Nagar, Near Himayat Sagar, Ranga Reddy Dist; Ph: 48268.

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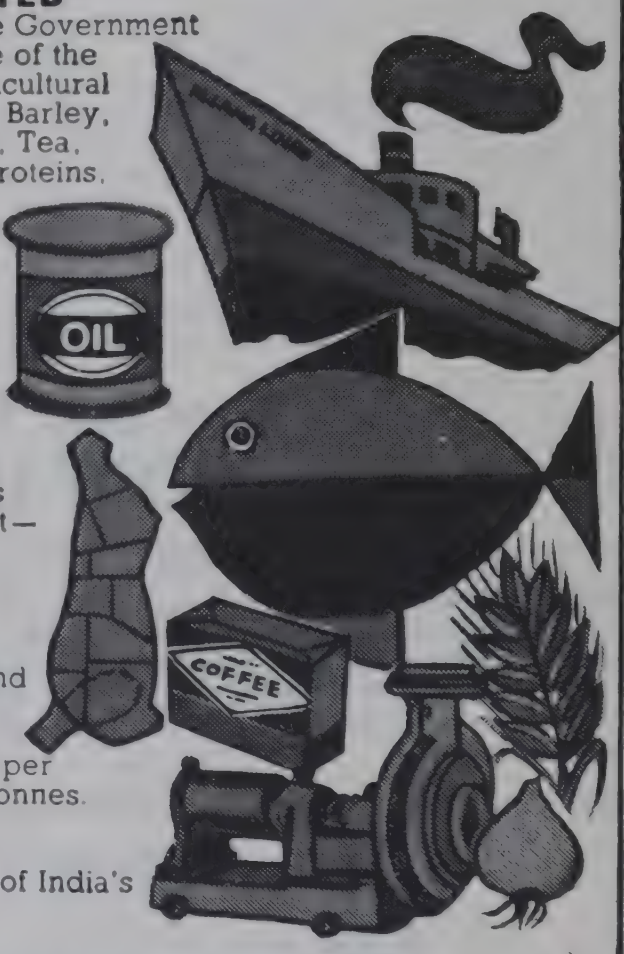
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ANDHRA PRADESH STATE MEAT & POULTRY DEVELOPMENT CORPORATION LIMITED (MAPDEC), 10-2-289 Shantinagar, Hyderabad 500028; Ph: 36681, 36856, Gram: Mapdec; Mg Dir: Dr C Rajal Rao.

C & M FARMING PVT LTD, Behind PWD Workshop, off Trimbak Rd, Nashik 422002; Ph:73522; Chmn: Marshall D'Souza; Mg Dir: Richard D'Souza; Dir: Elias M D'Souza; Dir (Ops): Rudolph Lima. Bombay Off: 402-403 Crawford Market, Bombay 400001; Mgr Incharge: C Surendran, Ph: 338202, 347754. Products: Boneless Chicken Meat & Frozen Chicken.

CENTRAL POULTRY BREEDING FARM, Govt of India, Industrial Area, Chandigarh 160002; Ph: 24461; Dir: Dr Harpal Singh.

DEEJAY HATCHERIES CONSUMER MARKETING DIV, St Patrick's Complex, 3rd Floor, Brigade Rd, Bangalore 560025; Ph: 579245, 562738, 562749, Gram: Babcock, Tlx: 0845-604; Mg Dir: David J Lobo; Mgr, Consumer Mktg Div: Eric J Rodrigues; Sr Exec: Vincent P Raj. Factory: Lingarajapuram, Bangalore 560084.

ESSEX FARMS PRIVATE LIMITED, 4 Aurobindo Marg, New Delhi 110016; Ph: 653537-8, 664056, Gram: Sausage; Dir: Arun K Goyle, Ph (resi): 237832; Tech Mktg Adviser: Dr A P Sachdev, Ph off: 657584, resi: 502929. Products: Fresh and canned chicken, broiler chicks and dressed chicken.

FOODS & INNS LIMITED, Regent Chambers, 13th Floor, Nariman Point, Bombay 400021; Ph: 224034, 233127. Poul Div: PO Theur, Pune. Products: Spray-Dried Egg Powders, viz, Egg Albumen Powder (Technical and Pharmaceutical Grades), Whole Egg Powder. Brand Name: Finns.

GOVERNMENT OF BIHAR, Poultry Dressing Plants, c/o Intensive Poul Dev Projects: Barauni, Bokaro, Jamshedpur, Patna, Ranchi.

MAFCO LIMITED, Mistry Bhavan, 6th Floor, Dinshaw Vachha Rd, Bombay 400020; Ph: 222244, Gram: Corpoagrid, Tlx: 011-5149; Mg Dir: Smt Rani Jadhav, IAS, Ph:220443, resi: 2026156; Dep Gen Mgr: S K Garde; Sr Div Mgr (Exports): A S Kate, Ph: 221421; Sr Divl Mgr (Mktg): G V Ghule, Ph: 221421, resi: 485769. Brand Name: MAFCO broiler.

MANAS PRODUCTS (PROTEIN) PVT LTD, Uzan Bazaar, F C Rd, Guwahati 781001; Ph: 27970, Gram: Manashouse; Dirs: A K Choudhury, D K Choudhury, R K Choudhury, J K Choudhury. Product: Broilers and culls.

MERCHANTS POULTRY FARM, 54 Agiary Lane, Fort, Bombay 400001; Ph: 268928; Prop: M P Merchant, Ph (resi): 6408209.

SHALIMAR COLD STORAGE, Administrative Off: 'Shalimar House', 28th Rd, Bandra, Bombay 400050; Ph: 538505, 547747, Gram: Shalitobuy, Khar, Tlx: 011-71445; Mgr: J V Mirchandani. Products: Broilers. Brand Name: Shalimar.

TAMIL NADU POULTRY DEVELOPMENT CORPORATION LTD, THE, (TAPCO), 561 Anna Salai, Madras 600018; Ph: 453154, Gram: Kozhiyinam; Mg Dir: K Allaudin, IAS, Ph: 450560. Modern Dressing Plant: Adyar, Madras 600028; Dist Mgr (Proc & Supply): M Bhaskaran.

VENKATESHWARA FARMS PRIVATE LIMITED, At & PO Karla, Via Lonavalla 410401, Dist Pune, Maharashtra; Ph: 34; Exec Dir: Gulam Harianawalla; Ops Mgr: Dr A B Chavan. Branch: 153-C Mittal Towers, Nariman Point, Bombay 400021; Ph: 243839, 243063.

VENKY'S FOOD DIVISION, Div of Venkateshwara Hatcheries Pvt Ltd, 13/6 Milestone, Panshet Rd, PO Girinagar, Pune 411025; Ph: 442244, 442561, 442748, 30495, Gram: Babcock, Tlx: 0145-319, 0145-329; Gen Mgr: Gulam Harianawalla; Mktg Mgr: Shailen Sohoni, Ph (resi): 55691. Product: Fast foods.

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Phones: 75214, 75215, 73667 PBX
Grams: 'POULTRY' • *Telex:* 0856-226 SKM IN

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ANNAPURNA EGG TRADERS, Velpur 534222, West Godavari Dist; Ph: 26 PP; Prop: M V G Prasad Rao.

AZIZ TRADING CO, 16-10-27/105/36A, Municipal Colony, Malakpet, Hyderabad 500036; Ph: 556875.

BALAJI POULTRY MARKETING SERVICES, 4/12-F-2 Vijayagopalapuram, Nawabpet, Nellore.

BHARAT EGGS, 23 Municipal Shop, Market Rd, Mahaboobnagar.

BOMBAY EGG AGENCIES, 11-2-148/1 Nampalli Market, Hyderabad 500001.

CHARMINAR EGGS AGENCIES, 16-4-277 Chanchalguda, Hyderabad. Godown: 18-14-160 Inside Royal Feed, Roshanbagh, Phisalbanda, Hyderabad 500256; Ph: 49048.

DIAMOND & INTERNATIONAL EGGS CENTRES, Opp Agricultural Mktg Committee, Vegetable Market, Warangal; Prop: Naseeruddin.

EGG BANK, 5-9-36 New MLA Quarters Lane, Basheerbagh, Hyderabad 500029; Ph: 220315, Gram: Eggbank; Mg Partner: M Krishnamurty.

EGGLAND, 3-5-1112/A Raj Mohalla, Hyderabad 500029; Ph: 551354; Prop: O Venugopala Sharma.

FRIENDS POULTRY TRADING CO, 16-11-740/1/A/8 Gaddiannaram, Dilsukhnagar, Hyderabad 500036; Ph: 42217; Mg Partner: Dr G V Krishna Rao.

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JAYA EGG TRADERS, c/o New Jayantha Lodge, Indira Gandhi Rd, Bhadrachalam 507111, Dist Khammam; Prop: P Bala Prasad.

JYOTHI TRADERS, No 7 Shanmuga Achari Complex, Palamaner Rd, Chittoor 517002; Ph: 2807.

KANAKADURGA EGG CENTRE, Singareni Super Bazaar, Old Bus Stand, Godavari Khani 505209, Karimnagar Dist;Prop:Kanakaiah.

KANTI AGENCIES, 4-7-17/1, C B Rd,Chittoor 517001; Prop: Ravi Chandra Reddy.

KOH-I-NOOR EGGS, 6-6-165 Osmanpura, Hyderabad 500024; Ph: 51083, 59334; Mg Partner: Kamaluddin.

KRISHNA POULTRY FARM, Hanumantawaka, Visakhapatnam 530010; Ph: 3722, 4541; Dr M Venkateswara Rao.

LAKSHMI VENKATESWARA TRADERS, 4-7-36 C B Rd, Greamspet, Chittoor 507001; Prop: K Ramachandra Naidu.

LATIF BROTHERS, 10-2-317/29/1, Near Hanuman Temple, Vijayanagar Colony, Hyderabad 500028.

LAXMI POULTRY FARMS, Hunter Rd, Warangal 506002; Ph: 7611; Prop: P Vengaiah.

M D SALEEM, 187 Mahbocb Chowk Market, Hyderabad 500002; Ph: 46441.

MAHALAKSHMI EGG MART, 211-A Netaji Rd, Tirupati 517501; Prop: Meghavarnam Naidu.

MANI EGG CENTRE, 7 Notified Area Complex, Bhadrachalam Rd, Kothagudem, Dist Khammam; Prop: P Sudarsan Rao.

MUNNA EGG CENTRE, 42/6-C New Police Line, Kurnool.

NATIONAL CHICKEN CENTRE, Municipal Colony, 16-10-27/105/33, Beside Andhra Bank, Hyderabad 500036.

NATIONAL EGG BANK, 9-4-211 Kasba Bazaar, Khammam; Prop: Shaik Babu Miya.

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PALAMANERU POULTRY FARMERS ASSOCIATION, 11-5, M P T Rd, Palamaneru 517433, Chittoor Dist.

POLARAO, D, SVP Market, Visakahapatnam 530001; Ph: 62667, 64703.

PRAKASH EGG CENTRE, Mankammathata, Karimnagar 505002; Ph: 2952; Prop: M Madhusudan Rao, Ph: 2633 (resi).

PRAMEELA EGG BANK, Room No 9, Gopalakrishna Shopping Complex, Dargamitta, Nellore 524004; Ph: 5919.

POPULAR POULTRY CENTRE, Guljaripet, Main St, Anantapur 515001.

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SUPER EGGS AGENCIES, 16-5-189 Debeerpura, Railway Station Rd, Hyderabad 500012; Ph: 44505; Khaja Moinuddin.

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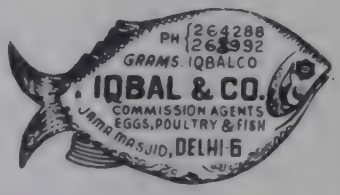
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LAXMI EGG MART, Near Fish Market, Bistapur, Tata 831001, Jamshedpur;Ph:28972.

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MANZUR & BROS,Hirapur Hat,Dhanbad 826001.

MOHD KAZIM, Maga Dahi Chowk, Samastipur 848101.

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ASHOK KUMAR & BROS, Babu Market, 95 Sarojini Nagar, New Delhi 110023; Ph: 670687, 679176 -- Budh Mal.

BADSHAH PF, Vill & PO Dera, Mehrauli, New Delhi 110030; Ph: 661674; Chief Exec: Sunil Kohli.

BAKSHI EGG STORE, 3698 Mori Gate, Delhi 110006; Ph: 2526712;Prop:Ranjit Singh, Ph (resi): 621555. Branch: C-135 Old Gupta Colony, Delhi; Ph: 7125234; Mgr: Pritpal Singh.

BUDHU RAM BHUGRA & SONS, 1042 Kashmere Gate, Delhi 110006; Ph: 225534; Prop: Budhu Ram.

DELHI EGG MART, 26/8-9 East Avenue Market, Punjabi Bagh, New Delhi 110026; Ph: 590767; Partners: Ram Phal Gupta, Subhash Chandra Single, Surindar Kumar Single. Sales Off: 26/70 West Punjabi Bagh, New Delhi 110026; Ph: 533054.

EGG TRADERS, 1 Gopal Bhawan, Ram Nagar, New Delhi 110055; Ph: 770467, 779708, 520073; Partner: Pramod Sawhney.

ESSEX FARMS PVT LTD, 4 Aurobindo Marg, New Delhi 110016; Ph: 664056, 657584, Gram: Sausage, Tlx: 031-2860 ESEX; Dir: Arun K Goyle, Ph: 237832 (resi); Tech Mktg Adviser: Dr A P Sachdev, Ph off: 657584, resi: 502929.

FINE EGGS MART, 2641 Chuna Mandi, Paharganj, New Delhi 110055; Ph: 529775.

HARCHARAN SINGH TALWAR & CO, 5803, Plot No 56, Basti Harphcol Singh, Sadar Thana Rd, Delhi 110006; Ph: 770622, Gram: Eggstores.

HARDEV SINGH & SONS, Egg & Poultry Dealers, Mori Gate, Delhi 110006; Hardev Singh.

IQBAL & CO, Poultry, Egg & Fish Dealers, Fish Market, Urdu Bazar, Jama Masjid, Delhi 110006; Ph: 264288, 268992, Gram: Iqbalco;Partners:Sultan Ahmed,Anis Ahmed.

J K PROTHI, 8A/29 WEA, Karol Bagh, New Delhi 110005; Ph: 5724785.

JAGDISH CHAND & CO, 36 Gole Market, New Delhi 110001; Ph:3312040-- Jagdish Dhir.

JANATA EGGS & POULTRY MARKET, Urdu Bazar, Jama Masjid, Delhi 110006; Ph: 265562.

KAPOOR EGG TRADERS, 40/567 New Moti Nagar, New Delhi 110015; Ph: 502653.

LAXMIDAS INDERJIT SABHARWAL (LIS), 143 Bhagat Singh Market, New Delhi 110001; Ph: 310830, Gram: Andaghar -- Guruditta Mal Sabharwal.

MOHAN SINGH & BROS, Central Market, L-81 Lajpat Nagar, New Delhi 110024; Ph: 626220, 623453.

NEW BAWEJA STORE, Shop No 11, Malka Ganj, Delhi 110007; Ph: 234766, 236818.

NAFED (National Agricultural Cooperative Marketing Federation of India Ltd), Sapna Bldg, 54 East of Kailash, PB No 3580, New Delhi 110065; Ph: 6432401, Gram: Nafed, Tlx: 31-3254, 31-61065, Chmn: Kamaluddin Ahmed; Mg Dir: G K Sharma, Ph: 6418191. NAFED POULTRY, 12 Community Centre, East of Kailash, New Delhi 110065; Proj Offr: Dr S P Sethi, Ph: 6411937, resi: 624682; Asst Mgr: S C Sharma. Delhi Branch: A-8 Lawrence Rd, -110035; Ph: 7126481; Mgr: S K Gupta. Kiosks at Delhi: East of Kailash

(12 Community Centre), Krishi Bhavan and Lawrence Rd. Branch Offices -- Bombay: 84 Veer Nariman Rd, -400020; Ph: 253589; Mgr: T K Subramaniam; Calcutta: 20 British India St, -700001; Ph: 233729; Mgr: Banerjee; Hyderabad: H No 5-8-105/C/1, 2nd floor, Nampally, Behind Kamat Hotel, -500001; Ph:225193; Mgr: M V Rao, Ph (resi): 31063;Lucknow: DS-10 Nirala Nagar, -226007; Ph: 71369; Mgr: P C Jain; Madras:158 Linghi Chetty St, -600001; Ph: 23115; Mgr: A Suryanarayan; Patna: MIT Bldg, 3rd floor, Buddha Marg, -800001; Ph: 22899; Mgr: P Jha. Brand Name: NAFED Poultry.

NEW EGG SALES, C-34/35 Rajdhani Market, Raghubir Nagar, New Delhi 110027; Ph: 591689, 530672, Gram: Eateggs; Mg Partner: Manmohan Singh. Branch: 12 Ganga Ram Vatika, Chaklandi, Tilak Nagar, New Delhi; Mgr: K K Dhawan.

NEW EGG TRADERS, 7972 Arakashan Rd, Paharganj, New Delhi 110055; Ph:520173.

OBERCI EGG SALES, Shop No 11263, Gaushala Marg, New Rohtak Rd, New Delhi 110005; Ph: 512955.

OVERSEAS MARKETING, B-63 G T Karnal Rd, Industrial Area, Delhi 110033.

PARVEEN EGG SALES, Shop No E-24, Hauz Khas Market, New Delhi 110016.

POORNA POULTRY TRADING CO, Andheria Bagh, Mehrauli, New Delhi 110030; Ph: 667269; Prop: Parmanand Grewal

PRINCE EGGS MART, A-53 Indira Nagar, Delhi; Ph: 7115216.

PUNJAB EGG SALES, 3152 Bazar Turkman Gate, Delhi; Ph: 269552.

PUNJAB POULTRY DEV CORPN LTD, THE, 1621-22 Chandrawal Rd, Delhi 110007; Ph: 235622.

RAJ EGGS MART, 4084 Gali Nai Wali, Urdu Bazar, Jama Masjid, Delhi 110006; Ph: 265803, 268673.

RAJDHANI EGG TRADERS, 2894 Bhagat Singh St No 4, Paharganj, New Delhi 110055; Ph: 5724643 PP.

RAJENDER PRASAD & CO, 4145 Jama Masjid, Delhi 110006; Ph: 262203, 269854.

SABHARWAL TRADERS, 26/23 Punjabi Bagh, New Delhi 110026; Ph: 505176, 505479 -- Inder Jit.

SACHDEVA BROS, 990 Hamilton Rd, Mori Gate, Delhi 110006; Ph: 220488.

SAMMAN FAYAZ & CO, 4102 Jama Masjid, Delhi 110006; Ph: 261665. Brand Name: SKG.

SANGAM EGGS MART, 3453 Delhi Chamber, Delhi Gate, New Delhi 110002; Ph: 269311; Godown: 272858, Gram: Eggsmahal -- Malik.

SETHI EGG STORE, 3601 Main Rd, Bara Hindu Rao, Delhi 110006; Ph: 516173; Prop: S C Sethi.

TAJ EGGS & POULTRY, 4026 Galikhan Khana, Jama Masjid, Delhi 110006; Ph: 271890, 623068.

VASDEV EGG STORES (REGD), 9030 Rambagh Rd, Azad Market, Delhi 110006; Ph: 777332, 521484, Gram: Vasudev Andavalla; Partner: Vasudev.

Goa

DEPARTMENT OF ANIMAL HUSBANDRY & VETERINARY SERVICES, Panaji 403001; Dir: Dr A S Wagle, Ph: 5381; Poul Dev Offr: Dr A Sequeira Nazareth. Egg Collection-cum-Veterinary Aid Centre, Mandrem.

EGG MARKETING SCHEME, Dte of Animal Husbandry & Veterinary Services, Govt of Goa Daman & Diu, Tonca-Caranzalem 403002; Ph: 2623; Credit Planning Offr: J A P A Noronha.

JOVAL SALES CORPN, Margao 403601 -- Francis Valadores.

KEITH POULTRY SERVICES, Curti, Ponda Tq; Prop: Keith J Rosario

OLEGAR NAZARETH FARMS, Ucassain, Bardez, Goa; Mg Partner: A Nazareth.

POULTRY BREEDERS' CO-OPERATIVE SOCIETY LTD, Salcete, Margao 403601; Chmn: Prof L J Dennis; Sec: S Berne.

VALFRAN SALES & SERVICE, Margao 403601; Ph: 3703.

Gujarat

BHARAT EGG DEPOT, Opp Station, Masjid, PB No 55, Bilimora 396321; Ph: 553, Gram: Bharateggs.

GUJARAT STATE POULTRY FARMERS' COOPERATIVE FEDERATION LTD, 61 Sardar Patel Colony, Stadium Rd, Ahmedabad 380014; Ph:444551, Gram: Eggfed; Chmn: P G Ramrakhiani, IAS; Mg Dir: Dr C K Dedhia.

MAZDA EGG CENTRE, Outside Sahara Darwaja, Surat 395001; Ph: 34973 -- Minoo K Pooniwala.

PATEL POULTRY CENTRE, Kadod 394335, Bardoli Tq; Prop: Sharadbhai G Patel

SURAT DISTRICT POULTRY FARMERS COOPERATIVE SOCIETY, Chalthan.

VALSAD JILLA POULTRY FARMER'S COOPERATIVE SOCIETY LTD, Bilimora 396321, Valsad

Dist; Chmn: M M Chauhan; Mgr: M Z Shah.
YUSUFBHAI K KAPADIA, Eggs Merchant, Station Rd, Bilimora 396321, Valsad Dist.

Haryana

GOVERNMENT OF HARYANA POULTRY MARKETING CENTRES -- Ambala Dist: The Ambala Dist Coop Egg & Poul Mktg Fedn, Jagadhri; Pres: Dr S M Sharma, Dep Dir, ICDP, Ambala; Ph: 57225; Gurgaon Dist: The Gurgaon Dist Egg & Poul Mktg Fedn; Pres: Dr Tek Chand, Dep Dir, ICDP; Ph: 2415; Hissar Dist: The Hissar Dist Egg & Poul Mktg Fedn, Hissar; Pres: Dr S L Yadav, Dep Dir; Ph: 2612; Karnal Dist: The Karnal Dist Egg & Poul Mktg Fedn, Karnal; Pres: Dr Sube Singh, Dep Dir, ICDP; Ph: 2805; Kurukshetra Dist: The Kurukshetra Dist Egg & Poul Mktg Fedn, Kurukshetra; Pres: S P Rana, Dep Dir, ICDP; Ph: 126.
SATISH EGG CENTRE, Vill Chandpur, Yamunanagar 135001; Prop: Dr Satish Chandra
SAWHNEY POULTRY FARM, 196 New Colony, Gurgaon; Ph: 2528 -- Pramod Sawhney.

Jammu & Kashmir

GOVERNMENT OF J & K, AH Dept; Poul Mktg Offrs -- Jammu: Dr R L Sharma, Ph:8189; Srinagar: Dr M A Vakil, Ph: 6102.

Karnataka

AMYAD EGG MART, Mahatma Gandhi Market, Kolar Gold Field 563122, Kolar Dist -- Altaf.
ASLAM EGGS CENTRE, Kurmuri St, Behind Mysore Cafe, Chikmagalore 577001.
BALAN, Krishnarajendra Mutton Market, Bangalore 560002.
BANGALORE CHICKS, No 17 Kalasipalayam Main Rd, Bangalore 560002; Ph: 607457 -- Ayaz Khan.
BASHA JAN, S H, Door No 3, L No 8 St, Jama Masjid Cross Rd, Bangalore 560051.
BIDHAR EGGS CENTRE, Opp Mana Sada School, Bidar -- Karim.
CHICKEN CENTRE, C B T, Opp Rajasthan Lodge, Hubli.
CRUZ, R, 25 Russel Market Square, Bangalore 560051; Ph: 51888.
FRESH EGGS CENTRE, 366 Devaraja Market, Mysore 570001; Ph: 23062, Gram: Anadwala; Mg Partner: M H Abdul Salam.
GENERAL CHICKS, 21 Kalasipalayam Main Rd, Bangalore 560002; Ph: 608886. Branch -- Maharashtra: Aziz Broiler Farm, Pune-Panvel Rd, Shirdon 416419 (Raigad Dist); Ph: 3160.
JALEEL, R A, 42 New Market Rd Cross, Russel Market, Bangalore 560051; Ph: 53804, 54826.
JAYANT TRADERS, Devanahalli 562110, Bangalore; Ph: 73039; Mg Partner: K Sreenivasan
KASI EGG CENTRE, No 228 Cottonpet, Bangalore 560053; Ph shop: 606357, resi: 28775, 27812 PP; Prop: K R Sampath Kumar.
KASI TRADERS, Regd Off: No 531-532 O T C Rd (near Balepet), Bangalore 560053; Ph: 27812; Partner: K R Chandrashekara Setty; Mgr: R G Prakash. Sales Depot: No 16 'G' Block, Sri Balaji Complex, Sultanpet, Bangalore 560053; Ph: 77044.
MODERN EGGS CENTRE, Main Rd, Gulburga -- Subramanyam Reddy.
MYSORE POULTRY FARMERS' ASSOCIATION, THE, 19 Platform Rd, Bangalore 560023; Ph: 350199; Pres: M K Panduranga Setty; Sec: H D Krishna Iyengar; Exec Sec: Dr M R Raghavendra. Marketing Centre: 'Egg Bank', Hebbal, Bangalore 560024; Ph: 30380.
NANJUNDESWARA EGG CENTRE, K P Rd, Hassan 573201 -- S Puttalingappa.
NEW FRESH EGGS CENTRE, Bus Stand Rd, Tunkur 572101 -- Nagabhusanam Raju.
NOOR FARM PRODUCTS, No 9 Russel Market Square, Opp Fish Stall, Bangalore 560051; Ph: 52679, 54344.
QUALITY EGG CENTRE, 16 T C M Royan Rd, Goods Shed Rd, Bangalore 560053; Ph: 70602, 76602.
RAGHAVENDRA EGGS TRADER, Gowli Beet, Near Prasad Lodge, Madikeri 571201 -- Laxmana Rao.
SALEEM EGGS CENTRE, Near Gandhi Chowk, Bijapur.
SOMNATH FARMS, Someshwar Vill, Post Kotekar 574152; Ph: 6451 (Ullal); Prop: Kiran Dutt UR.
SRI LAXMI POULTRY CENTRE, S N Market, Shimoga 577201 -- U K Vasappa.
THOMAS, P A, Poultry Dealer, Russel Market, Bangalore 560051.
VENUS EGG CENTRE, Maruti Complex, No 675 Jain St, Opp Railway Centre, Mandya.
VEENUS EGG CENTRE, Veenus Poul Projects, Deveraj Market, Mysore 570001--Ramesh.

Kerala

A G N ENTERPRISES, 3/925 Cannanore Rd, Calicut 673011 — Murugam Thumai.
ABDUL RAHIM, S, Chinnakkada, Quilon; Ph: 4604.
CHICKEN & EGG CENTRE, Daily Market, Main Rd, Quilandy, Calicut Dist.
GOVERNMENT OF KERALA, Dte of AH, Egg Collection & Marketing Scheme; HO: Central Hatchery, Chengannur 689121, Alleppey Dist; Supdt: Dr Eswaran; Vet Surgeon: Dr Jacob Thomas; Asst Engr (AC&R): S Gopinathan; Ph: 217; Egg Sale Depots: Alleppey, Calicut, Cannanore, Ernakulam, Kottayam, Palghat, Pettah, Quilon, Trichur.
JOSEPH EDATHIL & BROS, Market Rd, Ernakulam, Cochin 682031; Ph: 36048.
KADHER, A T, Mettupalayam Rd, Palghat; Ph: 5567.
KAREEM EGG CENTRE, Daily Market, Vulvakadu, Malapuram Dist.
KOTTAYAM EGG SUPPLIES, Stall No 9, Vegetable Market, Kottayam.
MADRAS EGG MART, 464 Aristro Junction Rd, Thampanoor, Trivandrum.
P J PAUL & CO, Market Rd, Ernakulam; Chief Exec: P J Paul; Ph: 35685.
P P K EGG MERCHANT, No. V-5, M V Market, Telecherry, Cannanore Dist -- P P Kunhi Mammoo.
PURUSHOTHAMAN & CO, Egg Merchant, Market Rd, Cannanore.
RAHEEM, K A, Chamakkada, Edanazhi, Quilon; Ph: 3948.
S & J SALES CORP, T C 15/1745, Glass House, Panavila Tq, Trivandrum 695014; Ph: 62915, resi: 66105;Tlx:884-335 MEAT IN.



Madhya Pradesh

BHILAINAGAR POULTRY FARMERS ASSOCIATION, c/o Jaya Poultry Farm, Q No 21C, St 2, Sector No 2, Bhilai 490001; Sec: J S Deshmukh.
M & B POULTRY PRODUCTS, 2/84 Ram Nagar, PO Adhartal, Jabalpur 482004; Prop: Manikant Nema.
NATIONAL EGGS DEPOT, 120 South Civil Lines, Jabalpur 482001; Ph: 1402.
SARDAR CONSUMERS CENTRE, Murgi Bazar, Jehangirabad, Bhopal 462008; Ph: 63930 -- Mansoor Mohd Khan.

Maharashtra

A1 CHICKEN EGG CENTRE, Kabarsthan Market, Shop C/24, Bagal Chowk, Kolhapur.
A KAREEM & SONS, Shaganj Market,Aurangabad.
A KARIM & CO, M J P (Crawford) Market, Wholesale Eggs Section, Bombay 400001; Ph: 332412 -- A Karim.
AGROCORPEX INDIA LIMITED, Regd off: 153 Mittal Towers, C Wing, Nariman Point, Bombay 400021; Ph: 243839, 231956, Tlx: 011-5754; Chmn: B V Rao; Dirs: M B Desai V N Dubey, P V Soma Raju, Laxmi Narayan Reddy, C Sadanand Rao, Kishore H Clerk, K K Ramaswamy; Exec: Suhas Mehta.Branch: III-A Subhodaya Apartment, Bogalkunta, Hyderabad 500001; Ph: 237254, 236424.
AJANTHA EGG CENTRE, Shop No 5, Shahganj Market, Aurangabad; Prop: Md Hammeed.
ANIL POULTRY, 245 Navi Peth, Near Rly Station, Jalgaon.
ASHOK EGGS CENTRE, c/o Mayur Hotel, Near Bus Stand, Allapalli Rd, Ballarshah.
AZIZ TRADING CO, 50-51 Lokmanya Tilak Mkt, M Shaukat Ali Rd, (Grant Rd), Bombay 400007; Ph: 360055, 384625, 383645, Gram: Azizchicks; Partners: Abdul Aziz H Khan, Ph: 8728607 (resi), Amrullah M Khan, Ph: 392019 (resi), Ali Hasan M Khan, Ph: 896683 (resi). Branches: Hyderabad (Andhra Pradesh) and Bulsar (Gujarat).
BEDA (Bombay Egg Wholesale Dealers Association), 9 Kamal Mansion, Arthur Bunder Rd, Colaba, Bombay 400005; Ph: 212129.
BAGWAN TRADERS, 17 Deshmukh Colony, Near Civil Hospital, Satara.
BEEJAY ASSOCIATES (CONTRACTS) PVT LTD, 2/3

Kartar Bhavan, 121 Shaheed Bhagat Singh Marg, Colaba Causeway, Bombay 400005; Ph: 240592, Tlx: 011-6037.

BISMILLAH & CO, 607 Nana Peth,Pune 411002.

CHAND YASIN & BRCS, Chhatrapati Shivaji Maharaj Mandi, Egg Div, Basement, Palton Rd, Bombay 400001; Ph: 264328; Mg Partner: Chand Yasin Mulla, Ph (resi): 8728785. Branch: Shop No 6, Null Bazar Market, Bombay 400003; Partner: Nizam Yasin Mulla. Associates Concern: Chand Yasin & Sons, Bellary 583104.

CHICKEN MARKET, Malawe Bhavan, 102 A, S Nagar, Pune 411005; Ph: 53440.

DIAMOND EGG DEPOT, Gurwar Peth, Miraj 416410 — Babu Abdul Kari.

DIAMOND EGGS, 64 Phule Market, Nagpur; Ph: 40364.

FAVOURITE POULTRY CENTRE, 69 Phule Market, Nagpur.

GEETA EGGS SUPPLIERS, Plot No 219, Pimpri Colony, Near S B I, Pune.

HAFIZ BROTHERS, 7 Tank St, Surti Mohalla, Bombay 400008; Ph: 897465, 371277, Gram: Baramad.

HAMZAKHAN & CO, Crawford Market, Wholesale Eggs Sec, Bombay 400001 — Huseinbhai.

HANIF TRADING COMPANY, 13 Fowls Stall, M J Phule Market, Bombay 400001; Ph: 345593, 345580, Gram: Amanat; Mg Partners: Md Hanif, Md Aftab, Md Anwar, Md Halim.

HEERALAL SAMAKU TADAV, Bombay-Poona Rd, Bhosalewadi, Plot No 13, Shivajinagar, Pune 411005.

HIRA EGG CENTRE, Old Mondha, Parbhani -- Radha Kishan.

HY-PRO EGGS, 14 Super Bazar, Behind Prince Palace Hotel, Station Rd, Santa Cruz West, Bombay 400054; Ph: 342157, 331472.

I AHMED & CO, 22/24 F Block, Sitaram Bldg, Palton Rd, PB 620, GPO, Bombay 400001; Ph: 345531, 345716, Gram: Emteyaz, Tlx: 011-2406; Partner: Imtiyaz Hassan Khan.

INDIANA POULTRY, Shop No 477-479 Crawford Market, Bombay 400001; Ph: 337348, Factory: 342560, Gram: Poultry; Mg Partner: Mohammed Saeed, Ph: 332614 (resi); Partners: Mohd Salim, Mohd Iqbal.

J M PATEL & CO, Block No 963, Shukrwar Peth, Pune 411002.

JABBAR EGG CENTRE, Kranthi Chowk, Bhaji Market, Parbhani -- Abdul Jabbar.

JAMAL TRADING COMPANY, 53 Bajaj Bhavan, 226 Nariman Point, Bombay 400021; Ph: 234907, 232087, 233210, Gram: Midlexpor, Tlx: 011-3187 -- D C Gandhi.

KARAD POULTRY AGENCY, Shaniwar Peth, Kalyani Bldg, Karad.

KHANNA EGG MERCHANT, Mangal Gate, Ahmednagar.

KINGS POULTRY PRODUCT, 58 The Mall Rd, Cantt Area, Kamptee 441001; Ph: 8249; Mg Partner: Ravi Nath.

KISMATH POULTRY SERVICES, Kismath Egg Mart, Main Rd, Vita 415311.

LALAMINI EGG CENTRE, Allapalli Rd, Ballarshah.

LATIF FARMS, 279 Nagdevi St, 2nd floor, Above Bank of Maharashtra, Bombay 400003; Ph: 335570, 335571, Gram: Poltryking; Mgr: Jalal H Momin, Ph: 583198 (resi).

MAFCO LIMITED, Mistry Bhavan, 6th floor, Dinshaw Vachha Rd, Bombay 400020; Ph: 222244, Gram: Corpoagrid, 011-5149; Mg Dir: Smt Rani Jadhav, Ph: 220443; Dep Gen Mgr: S K Garde, Ph (resi): 4935729; Sr Divl Mgr (Exports): A S Kate, Ph (resi): 4932538; Sr Divl Mgr (Internal Mktg): G V Ghule, Ph (resi): 485769; Sr Divl Mgr (Procurement, Prod & Tech); Dr R R Mallya, Ph (resi): 4220327; Egg Div: Bombay Deep Freeze, J J School of Arts Compound, Near Crawford Market, Bombay 400001; Ph: 265886, 268828; Sr Mgr (Sales), Frozen Foods, Egg Sales: S R Tungikar, Ph: 267405, 268828. Procurement Centres — Koregaon: MAFCO factory, Rahimatpur Marg, Koregaon 415501; Factory Mgr: S V Phadnis, Ph: 287, resi: 217; Nagpur: Area Office, Block No 101, Phule Market, Nagpur 440001; Ph: 47442; Area Mgr: S R Thawale, Ph (resi): 26789; Pune: Gokhale Nagar, Pune 411016; Ph: 65068; Factory Mgr: N K Marva, Ph (resi): 53181. Brand Name/Products: MAFCO Broiler, Boneless Chicken (Canned),Chicken-n' Ham.

MANE TRADING CO, Bombay-Pune Rd, Vadgaon 412106 (Maval); Prop: Dr Ashish Bhagwat

MERCHANTS POULTRY FARM, c/o A J Sopariwala & Co, 54 Agiary Lane, Bazargate, Fort, Bombay 400001; Ph: 268928,6408209 (resi) -- M P Merchant. Products: Broilers.

MODERN POULTRY AGENCY, 34 Shivaji Nagar, Sangli.

MOMIN, D A, 111 Budhwar Peth, Pune 411002.

NATIONAL EGG CENTRE, Bimka Rd, Chandrapur; Ph: 2390.

PATEL POULTRY AGENCY, Guruwar Peth, Miraj.

PATIL POULTRY, 230/2 Sakegaon, National Highway, Bhusaval,Jalgaon Dist;Ph:2925.

POONA POULTRY PRODUCTS, Vill Mamurdi, Dehu Rd, Pune Dist 412101; Ph: 276, 327;

Mg Partner: P R Kibe; Mgr: Dr R S Rawat.
POULTRY & ALLIED PRODUCTS CO PVT LTD, 38-C Cawasji Patel St, Bombay 400023; Ph: 253231, Gram: Akbalallys, Tlx:011-2045; Chmn: H T Khorakiwala; Mg Dir: Yunus Rampurwala; Exec Dir: S N Trivedi. Sales Off: 9 Kamal Mansion, Arthur Bunder Rd, Colaba, Bombay 400005; Ph: 231327, 234805.
R K POULTRY AGENCIES, Somwar Peth, Madhavnagar, Sangli 416416; Ph: 2905, 2251 -- Dr M M Kulkarni.
RAJHANS SAHAKARI KUKKUT PALAN SANGH LTD, Stall No 14, Khumbary Shopping Centre, Sholapur.
RAVI KUMAR CHADHA & CO, Transport Agent, Chorpadi, Pune 411001.
ROYAL EGG CENTRE, Kranti Chowk, Bhaj Market, Parbhani — Mohammed Fariuddin.
S A EGG DEALERS, Near Vasant Talkies, Bhusaval, Jalgaon Dist; Ph: 2825.
SALAHUDDIN & CO, Wholesale Egg Mkt, M J Phule Market, Bombay 400001; Ph:345812, 338708 (resi)--Salahuddin Mohd Momin.
SHALIMAR COLD STORAGE, Administrative Off: 'Shalimar House', 28th Rd, Bandra, Bombay 400050; Ph: 538505, 547747, Gram: Shalitobuy, Khar, Tlx: 011-71445; Mgr: J V Mirchandani. Brand Name: Shalimar.
STANDARD EGGS, Bindu Chowk, Kolhapur; Prop: Mehboob Alhabaksha Momin.
STAR EGG CENTRE, Bijapur Base, Sholapur 413302 -- M A Oddo.
SUNITI FARMS, Mafco Compound, 560 Market Yard, Gultekdi, Pune 411009;Ph:446172 PP — G R Barve.
SUPER CHICK, 77 Wanawani, Pune 411013; Ph: 66784.
SUPER EGG CENTRE, 826, Shop No 10, Tulsidass Apartments, M G Rd, Camp, Poona.
SUPER FARM PRODUCTS, 14 Super Bazar, Santa Cruz (West), Bombay 400054; Ph: 541370.
SYED EGG CHICKEN CENTRE, Vazirabad, Nanded -- Zahuruddin.
TAJ BABA EGGS, 72, Phule Market, Nagpur; Ph: 45158.
VENKATESHWARA HATCHERIES PVT LTD, 13/6 Milestone, Panshet Rd, PO IAT, Girinagar, Pune 411025; Ph: 442244, 442748, 442561, 442663, Gram: Babcock, Tlx: 0145-329; Mg Dir: B V Rao; Gen Mgr (Sales & Exports): Dr M A Samad, Ph: 60281 (resi); Export Mgr: Nalin Mehta, Ph: 570363 (Bby). International Div: 153 Mittal Tower, C Wing, Nariman Point, Bombay 400021; Ph: 243839.
YOJNA POULTRY FARM, Deccan College Rd, Yerwada, Pune 411006.
ZAHIRA EGG CENTRE, Vazirabad, Nanded.

Meghalaya

GOVERNMENT OF MEGHALAYA, Dte of Animal Husbandry & Veterinary, Poultry Marketing Centre, Garikhana, Shillong 793001; Ph: 4724, Gram: Disvet; Offr Incharge: Dr W L Bathew.
MEGHALAYA POULTRY FARMERS ASSOCIATION, c/o Shillong Co-operative Mktg Society Ltd, Bara Bazar, Shillong 793002 -- Horen Jones.

Orissa

AGRO ENTERPRISES, Church Rd, Berhampur 766001; Prop: Balakrishna.
BHARAT EGGS CENTRE, PO Bargarh, Dist Sambalpur.
CHEKRA RAO, D, Egg Merchant Majji Gouri St, Rayagada 765001, Koraput Dist.
DURGA EGG CENTRE, Near Gurudwara Main Rd, Jharsuguda 768201, Sambalpur Dist; Prop: Yaspal Malhotra.
Ghosh, Sujan Bihari, Egg Merchant, Daily Market, Rourkela 769001; Ph: 2913.
GULAM NABI, Shop 4/60, Bushi Bazaar, Cuttack 753001.
KALAMIYAN EGG MERCHANT, Kachari Bazar, Bhadrak 756100.
KAPOOR & SONS, Gole Bazaar, Sambalpur 768001; Ph: 1068, resi: 1067.
KHAN, S A, Plot No 87/4, Bapuji Nagar, Bhubaneswar 751001.
KUNDU, D B, Egg Merchant, Daily Market, Rourkela 769001; Ph: 2124, 2064.
LUCKY EGG, Daily Market, Rourkela 769001; Ph: 2913, Gram: Loknath — Sujon Behari Ghosh .
MAHALAXMI EGGS CENTRE, Main Rd, Jharsuguda 768201, Sambalpur Dist; Ph: 524 PP; Prop: Kanaiya Lal Saha.
MAHARANI CHICKEN CENTRE , Jharapada, Bhubaneswar 751006; Prop: J N Panda
NARESH EGG CENTRE, Gandhi Chowk, Bhawanipatna 766001; Prop: Subash Chandra Behra.
ORISSA STATE POULTRY PRODUCTS COOPERATIVE MARKETING FEDERATION LTD, Mangalabag, Cuttack 753001; Ph: 22296; Mg Dir: Dr B B Sahu.
POULTRY MARKETING CENTRE, 127 Church St, Sambalpur -- A Nayak.
PRADHAN, B N, Egg Merchant, Jail Rd, Kammeapally, Berhampur Dist.

PRASAD EGG CENTRE, 101/13 Opp Giti Market, Khurdha Rd, Berhampur 766001, Ganjam.
SANTOSHIMA EGG BANK, Maharanipeta, Jeypore 764001; Ph: 295; Prop: V Ramana Rao; Mgr-cum-Sales Superviser: A V Ramana. Branch: Main Rd, Semiliguda; Mgr: A Rama Rao. Brand Name: SEB.
YUNUS KHAN, Near Samaj Office, Bushi Bazaar, Rayagada 765001, Koraput Dist.

Pondicherry

DHARMARAJ, A, No 6, Big Market, Pondicherry.
HALID, R M, No 72 Ambur St, Pondicherry.
MALABAR EGG MART, No 34, Big Mart, Pondicherry; Prop: P C Mathies.
NEW EGG STALL, No 68, Big Market, Pondicherry -- M Surendra.
NEW MALABOUR EGG STALL, No 41, Tyagu Mudaliar St, Pondicherry; Prop: V L Auto.
PATHIMA EGG CENTRE, Vallalar Nedumsalai, Kamaraj Nagar, Pondicherry 605011; Prop: K L Louis.
THOMAS, P L, No 4/14 Pillai Thota, Kamaraj Salai, Pondicherry.

Punjab

AJAIB SINGH, Egg Dealer, Gurdwara Rd, Kot Kapura 151204, Faridkot Dist.
AMAR EGG MARKET, Model Town Rd, Near Bus Stop, Ludhiana 141001; Ph: 29156 -- Amar Nath.
ARJUN SINGH, Egg & Poultry Dealer, Jandiala Rd, Tarn Taran 143401, Amritsar.
BALACHAUR COOP POULTRY MARKETING SOCIETY LTD, PO Balachaur 144521, Hoshiarpur.
BURDY'S BROILERS, 149 Industrial Area, Chandigarh; Ph: 28383--Santosh Bhasin.
CENTRAL POULTRY BREEDING FARM, Govt of India, Industrial Area, Chandigarh 160002; Ph: 24461, 41491, Gram: Regpofarm; Dir: Dr Harpal Singh.
CHANDIGARH POULTRY FARMERS' ASSOCIATION, 1283 Sector 21B, Chandigarh; Chmn: Lt Col G C Cheema, Ph: 21137; Sec: R P Sharma; Mgr: G L Nagpal.
CHICK-CHICK HOUSE, Naya Bazar, Jalandhar 144001; Ph: 7270; Prop: Amarjeet Singh.
DARSHAN EGG STORE, Dhangu Rd, Pathankot.
DASUYA COOP POULTRY MARKETING SOCIETY, PO Dasuya 144205, Hoshiarpur Dist.
DOABA EGG STORE, Kothi Rd, Nawan Shahr, Jalandhar Dist.
DOGRA EGG MARKET, Near Bharat Nagar Chowk, Jagraon Rd, Ludhiana 141001.
DUGGAL FEED CENTRE, Near Octroi Post, Dasuya 144205, Hoshiarpur Dist.
GARH SHANKAR COOP POULTRY MKTG SOCIETY, PO Garh Shankar 144527, Hoshiarpur Dist.
GOLDEN TRADING AGENCY, 4201 Sector 32-A, Chandigarh 160032; Prop: Smt Amrita
GOODWILL POULTRY FARM, Garden Colony, Patti 143416; Ph: 33; Prop: Prem Singh.
GOVERNMENT OF PUNJAB POULTRY WING, Kothi No 1308, Sector 19-B, Chandigarh 160019; Dep Dir, Poul Production-cum-Mktg: Dr Harjit Singh.
J S CHAWLA & CO, Milap Chowk, Jalandhar City 144001 -- Jagjit Singh Chawla.
KAY PEE CHICKS, Deep Poultry Farm, Vill & PO Gilwali, Tarn Taran Rd, Amritsar; Ph: 52387.
LUDHIANA EGG MARKET, Near Bharat Nagar Chowk, Jagraon Rd, Ludhiana 141001 -- Mohan Beer.
LUDHIANA TRADERS, Mandi Kesar Ganj, Ludhiana. Branch: National Rd, Ghumar Mandi, Civil Lines, Ludhiana.
MANDIP EGG STORE, Milap Chowk, Jalandhar City 144001.
NEW RAVI POULTRY ENTERPRISES, Nehru Garden Rd, Jalandhar City 144001; Ph: 72095: Bipin Chander Pal.
PATTI EGG STORE, Rly Rd, Patti 143416, Dist Amritsar; Ph: 93 (Patti); Prop: Satnam Singh; Ph resi: 45004 (ASR).
PROGRESSIVE POULTRY FARMERS ASSOCIATION (REGD); Agent: Punjab Poultry Corpn for feed, fowl, broilers, poultry products, etc, SCF 9/10, Sector 19-C, Chandigarh; Ph: 20208; Chmn: Maj-Gen Darshan Singh; Mktg Mem: Sqn Ldr Onkar Singh; Mgr: B D Garg.
PUNJAB POULTRY DEVELOPMENT CORPORATION LTD, THE, Kothi No 517, Sector 33-B, Chandigarh 160031; Ph: 28491, 33050 & 20698, Gram: Poltrycorp; Mg Dir: M Lal Manzula, IAS; Gen Mgr: Dr Gurcharan Singh Chahal; Sales & Mktg Mgr: Gamdoor Singh Sandhu. Egg Collection Centres -- Batala: Outside Quadian Rail Phatak, G T Rd; Chandigarh: Industrial Area, -160002; Ph: 25721; Mullanpur (Dist Ludhiana); Tarn Taran: Feed Sale Depot & Egg Collection Centre. Sale Depots -- Chandigarh: SCO No 2419-20, Sector 22-C; Booth No 24, Sector 18-D; Booth No 130, Sector 7-C; Booth No 195, Sector 37-C; Delhi: 1621-22 Chandrawal Rd, -110007; Ph: 235622.
SACCHA SAUDA BROILER FARM, 115 Sector 16-A,

Chandigarh 160016; Ph: 26737 -- Harnam Singh.

SAHNEWAL POULTRY FARMERS WELFARE ASSOCIATION, G T Rd, Nandpur, Sahnewal 141120; Ph: 55, 56; Sec: Sukhdev Singh.

SATISH EGG AGENCY, Near Vet Hospital, Dhuri 148023, Dist Sangrur; Prop: Haridev Malhotra

Rajasthan

AJMER POULTRY PRODUCTS COOPERATIVE MARKETING SOCIETY LTD, THE, (APPCOMA), Parao, Ajmer 305001; Gram: Poultry; Sec: Dr S C Bhatnagar, Ph: 23015 (resi).

ANIL EGG CENTRE, Kamla Nehru Market, Jaipur.

BHAWANI EGG CENTRE, Behind Majestic Cinema, Ajmer.

FATEH CHICKEN HOUSE, Vill Kucholi, Teh Malvi 313203, Dist Udaipur; Prop: A S Gaekwad

JAIPUR POULTRY PRODUCTS MARKETING COOP SOCIETY LTD, THE, 9 Kamala Nehru Market, Jaipur; Ph: 76154; Administrator: Dr A K Saxena.

JODHPUR KUKUT UTPADAN KRIYA VIKRIYA SAHAKARI SAMITI LTD, Ratanada, Jodhpur 342001; Ph: 21241; Sec: Dr S L Mathur.

KOTA POULTRY PRODUCTS MARKETING COOP SOCIETY, New Market, Guman Pura, Kotah 324001; Ph: 2817; Pres: K S Cheddah.

POULTRY ASSOCIATES, Karandeshpura, Ajmer; Ph: 20738 — Lachman Das Tikwani.

POULTRY COMBINE, Raja Cycle Bldg, Srinagar Rd, Ajmer -- J C Saxena.

POULTRY EGG CENTRE, Shop No 8, Parao, Ajmer 305001.

UDAIPUR KUKKUT UTPADAK SAHKARI SAMITI LTD, Opp J C Bose Hostel, Near Police Line, Udaipur 313001; Ph: 3208, Gram: Poulcoop; Mgr: Laxminarayan Sharma.

Sikkim

SIKKIM LIVESTOCK DEVELOPMENT CORPN LTD, Postik House, Deorali 737102; Mg Dir: Dr M M Golay; Ph: 214, resi: 499.

Listings in this YEARBOOK were compiled from information provided by manufacturers and suppliers of livestock, feedingstuffs, pharmaceuticals, equipment, products and services. All care has been taken to ensure accuracy of these lists. Any inaccuracies or omissions caused may kindly be brought to our attention.

Tamil Nadu

ALANKAR EGG BANK, 63-A Katra Palayam St, Madurai; Ph: 23523 — L Tamil Selvan.

AMUDHAM TRADERS, Salem Main Rd, Bommaikuttaimedu, Sellappampatty PO 637019, Namakkal Tq; Ph: 41 & 44 (Sellappampatty); Mg Partner: V Ramasami.

ANNAI POULTRY CORPORATION, 14 Paramathi Rd Namakkal 637012; Ph: 2828; Mg Partner: K Venkatachalam.

BALAMURUGAN AGRO-VET CENTRE, Perumal Kovil Medu, Karaikurichipudur PO, Namakkal Tq Salem Dist.

BHARANI ENTERPRISES, No 133 Thuraiyur Rd, Namakkal.

DEVI TRADERS, 22A, Trichy Rd, Namakkal 637012, Salem Dist; Ph: 2615; Mg Partners: K V Mohan & P Perumal.

ELUMALAYAM TRADERS, 73 Salem Rd, Namakkal — Ponnu Swamy.

ESBECE HATCHERIES, D5/D8 1st floor, Parsn Commercial Complex, 121 Mount Rd, Madra 600006; Ph: 475784; Pres: B Ravisankar Babu; Chief Exec: K Prasad.

FARITHA EGG CENTRE, Ibrahim Manzil, 118-A South Marret St, South Gate, Madurai; Ph: 23615 — K M Basha.

FRESH EGG CENTRE, 94 Crosscut Rd, Gandhipuram, Coimbatore; Ph: 32537 -- T A Thomas.

FUTNANI HATCHERIES, 13 Anna Avenue, Adyar Madras 600020; Ph: 411581, Gram: Goodheart, Tlx: 41-6865 MDFG IN; Mg Partne Kishore Futnani. Regd Off: Futnani Cha bers, 47 Sembudoss St, Madras 600001; Ph: 22731-32.

GANESH TRADING CO, Pudanchandai, Namakkal Salem Dist; Mg Partner: Ponnusami.

GOPI EGG MART, No 144, Kumari Chetty St, Kanchipuram.

GOUNDER TRADERS, No 6 Anna Salai, Rasipuram 637408, Salem Dist--P Kumararalu

INTERNATIONAL EGG CENTRE, Rajas Office Centre, J P T Complex, Old Bus Stand, Hosur 635125, Dharmapuri Dist.

J PADMA & CO, 65 Syful Mulk St, Mount Rd, Madras 600002; Ph: 812757.

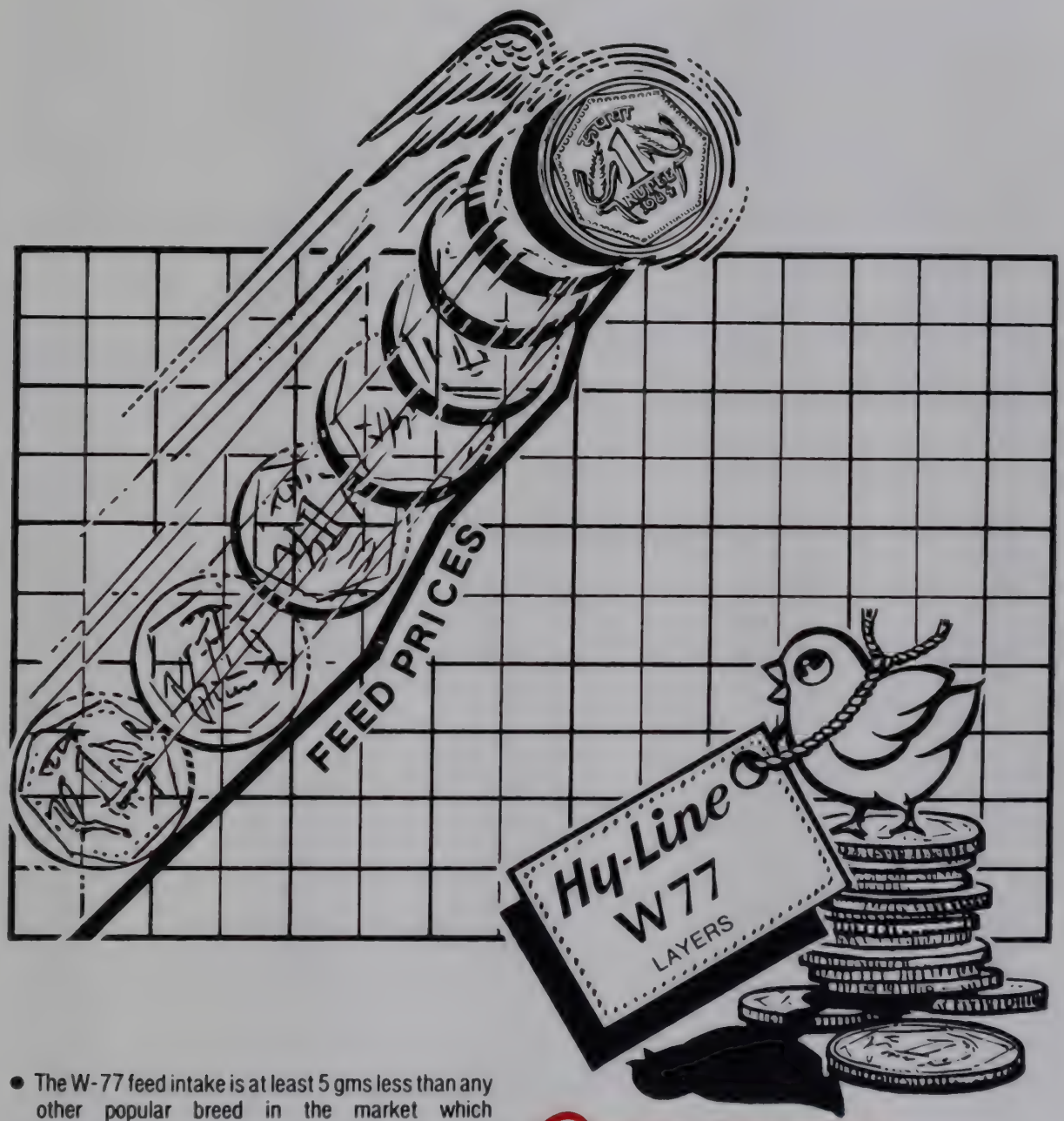
K K PURUSHOTHAN & BROS, 14 Sarangapani South St, Kumbakonam 612001; Ph: 1639.

KIBS EGG CENTRE, No 72 Valayakara St, Erode, Periyar Dist — N V Kandaswamy.

K V M & SONS, 95 Main Rd, Namakkal 637001 Ph: 2701 (off), 2601 (farm); Mg Partne K V Mohan.

KANAKA AGENCIES, 5 Society Bldg, Thirunagar Colony, Erode 638003; Ph: 76671; Dr S Swaminathan.

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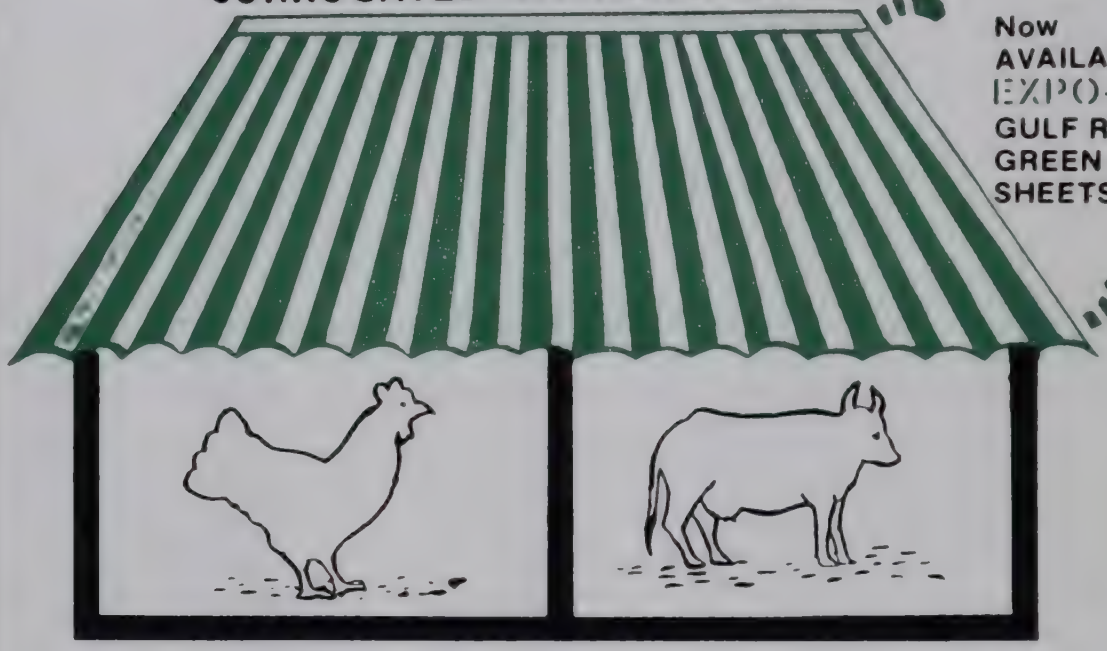
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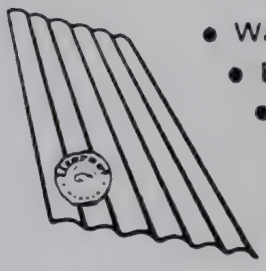
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Regional Offices:

New Delhi: 1076 Hardhyan Singh Road, Karolbagh, New Delhi 110005 • Phone: 5725011
Calcutta: 9/2-B Talbagan Lane, Orient Row, Park Circus, Calcutta 700017 • Phone: 449064
Bombay: Block A/2 Dwarakapuri, L.B. Shastri Marg, Kurla North, Bombay 400070 • Phone: 5130060

KANDASAMY & SONS EGG TRADING CO, Sholinganallur, Madras 600096; Ph: 413039; Partner: S K M Kandasamy

KAVERI FEEDS, 14 Paramathi Rd, Namakkal 637012, Salem Dist; Ph: 2828; Mg Partner: P Veerappan.

KERALA ENTERPRISING MART, 75 Avadanam Papier Rd, Vepery, Madras 600007; Ph: 662909; Prop: V F Chacko.

KOK-RO-KO, 8 XII Cross, Indranagar, Madras 600020; Mg Partner: G Vetrivel.

KOTHAI TRADERS, 209, Salem Rd, Namakkal 637001; Ph: 2696, 2440 (resi) -- Dr R Chezhian.

KUMUDA TRADERS, 100/1A Periya Kula Medu, Mayapillaiyarkil St, Tirupattur, North Arcot Dist -- G Gangadharan.

KUNGUNADU POULTRY SERVICES, 114-D Paramathi Rd, Namakkal 637002.

LAKSHMI EGG CENTRE, No 114 Paramathi Rd, Namakkal 637002 -- N Ettianna.

LUCKY EGG MART, East Pondy Rd, Villupuram 605602, South Arcot Dist; Prop: O A Perora.

M D JEGANNAATHAN, 65 Syful Mulk St, Mount Rd, Madras 600002; Ph: 812757.

MANI TRADERS, 179 Anna Salai, Rasipuram 637408, Salem Dist -- V Venkatachalam.

MANOHARAN EGG CENTRE, No 150 Asthempaty Main Rd, Asthampaty, Salem 636007 -- M S Selva Durai.

MURUGAN POULTRY, 70-C Salem Rd, Namakkal 637001; Ph: 2671; M K Palanisami.

MUTHUKUMARAN EGG MART, No 18 Bangaru Naidu Colony, Vanniar St, Virugambakkam, Madras 600092; Ph: 424926; Partner: C Sadananda Rao.

N SUBRAMANIAN & SONS, 211 Nethaji Rd, Madurai 625001; Ph: 34029.

NAMAKKAL EGG CENTRE, 42 Mariyappa Chetty St, Attur, Salem Dist -- Chandra Sekharan.

NANDA KUMAR EGG CENTRE, No 138 Dharmapuri Rd, Omalor, Salem Dist.

NEW EGG STORE, 63 Crosscut Rd, Gandhipuram, Coimbatore -- C A Vasu.

P VERGHESE EGG MART, 21 Anna Salai, Alwarpet, Madras 600024.

P I VERGHESE & SONS, 847 Big Bazar St, Opp Town Hall, Coimbatore 641001; P V Jacob.

PALANI, S, No 5A Anna Fish Market, Villupuram, South Arcot Dist; Ph: 2060.

PALLADAM EGG MARKETING CENTRE & POULTRY SERVICE, 18 N G R Rd, Palladam.

PERUNDURAI AGRO-EGG CENTRE, No 288 Bus Stand Rd, Perandurai, Periyar Dist.

PONNI EGG CENTRE, 163 Trichi Main Rd, Dadgapatti, Salem -- Sundararajan.

POONI TRADERS, 115-A Paramathi Rd,Namakkal.

RAJA TRADERS, Railway Station Rd, Tirupattur, North Arcot Dist--Jayarama Raju N.

R VEERAPPAN, Egg Wholesale Dealer, Moore Market, Madras 600003; Ph: 34181.

RAJA RAJESHWERI AGENCIES, Salem Rd, Namakkal 637001 -- Poonnusami.

RAMAR EGG MART, Fish Market, Tiruppapuliur, Cuddalore 607002, South Arcot Dist.

SKM POULTRY SERVICES, MARKETING CENTRES, Admn Off: 49/C Gandhiji Rd, Erode 638002; Ph: 75214, 75215 PBX, 73667, Tlx: 0856-226 SKM IN; Prop: S K Mylsamy Gounder. Head Off: 53 Gandhi Rd, Modakurichi 638104, Periyar Dist; Gen Mgr: S Lakshmanan; Tech Mgr: Dr A Ram Manohar; Dev Mgr: Dr P Radhakrishnan; Area Mgr (Sales): T Periathambi; Area Supervisors: V Vijaykumar, K Varadharajan; Area Mgr (Eggs), Tamil Nadu: R Ramasamy; Area Mgr (Eggs), Madras: C Balachandran; Area Mgr (Eggs), Kerala: K Velappan; Sales Reps: R Chandrasekaran, N Elango, M Palanisamy, N Murugesan, Prakasam M, P Radakrishnan, R Subramanian, K Chelladurai, M Selvaraj. Branches -- Madras: 77/3 Armenian St, -600001; Ph: 27140 & 24396; Madurai: 50 Nanmai Tharuvar Kovil St, -625001; Ph: 34830; Namakkal: 28 Salem Main Rd, -637001; Ph: 2356. Rural Branches: Attur, Bommaikuttaimedu, Harur, Kalangani, Kolaram, Mohanur,Namagiripet, Palladam, Perundurai, Puduchatram, Rasipuram, Sendamangalam, Tharamangalam, Thathathiripuram, Thudiyalur, Thiruchengode, Vaiyappamalai,Velagoundanpatti, Vellakovil, Vennandur.

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VELVEN-B

Liquid Feed-Supplement with Amino Acids is the best for poultry...? How... ? ... Why... ?

(See back cover of this book)

SWAMY TRADERS, K V B, Upstairs, Paramathi Rd, Namakkal 637002 -- Nalla Thambi.
TAMIL NADU POULTRY DEVELOPMENT CORPORATION LTD, THE (TAPCO), 561 Anna Salai, Madras 600018; Ph: 453164, Gram: Kozhiyinam; Mg Dir: K Allaudin, IAS, Ph: 450560; Mgr (Mktg): Vacant. Mktg Centres: Chengalpattu, Coimbatore, Madras, Madurai, Namakkal, Salem, Tirunelveli, Trichy, Vellore.
TEROM FARM PRODUCTS, 524 East Pondy Rd, Monilipac Bldgs, Villupuram 605602, South Arcot Dist.
THENAGAM TRADERS, Railway Station Rd, Tirupattur, North Arcot Dist-- G Setu.
TIRUMAL TRADERS, 41 Mattur Rd, Sivagiri, Nilagiri Dist.
TRAVANCORE EGG MART, 15 East Spur Tank Rd, Chetput, Madras 600008; Ph: 665697; Prop: G Parameswara Kurup.
TYAGARAJA EGG CENTRE, 59 Anna Salai,Rasipuram 637408, Salem Dist; Prop: K J Tyagarajan.
UNIVERSAL POULTRY FARM, Kunnathur Rd, Perundrai 638052, Periyar Dist; Ph: 356; Mg Partner: Dr P Bose.
URVASHI EGGS AGENCY, Salem Rd, Namakkal 637001, Salem Dist; Ph: 2439; Prop: K Ramamoorthy
USHA EGG STORE, 12H Pattakarar Bldg, Gandhiji Rd, Erode 638002; Ph: 73986, Gram: Eggs King; Mg Partner: T N Kumarasamy.
V S K EGG MARKETING CENTRE,Thatharakkadu, Valaithottam PO, Sivagiri 638109; P Visvanathan.
VAIGAI TRADERS, 29,B-1 Salem Rd,Namakkal.
VALARMATHI POULTRY FARM, No 18-A D D D C Bldg, Krishnagiri 635001, Dharmapuri Dist.
VASUKI EGG CENTRE, Sarofoji Market, East Gate, Tanjavur -- B Veeramani.
VENKATESWARA TRADERS, Vudayar Palayam, Attur Tq, Salem Dist.
VENUS POULTRIES, Vaiyappamalai 637410, Rasipuram Tq, Salem Dist -- K Ganesan.
VET-PHARM, 29 Police Commissioner's Office Rd, Egmore, Madras 600008; Ph: 842738, Gram: Corocombi, Tlx: MS 041-7547.
VIJAYA LAXMI EGG CENTRE, 70 Madurai Rd, Trichy 620008; Ph: 29022 --R Rathnam.
VIRUDHUNAGAR POULTRY BREEDERS SOCIETY, East Theppam Bazaar, Virudhunagar 626001; Ph: 3086 -- V V S Kesavan.

Not listed in this edition???
Don't be a "no-show" in the next one:
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Uttar Pradesh

AGGARWAL, A K, Baijnatha, Kamasha,Varanasi
ASHOK KUMAR, Gol Ghar, Gorakhpur.
BHARAT EGGS STORE, Shop No 19, Nehru Market, Englishia Line, Varanasi.
CHAMANJIT SINGH, Shop No 14 Nehru Market, Englishia Line, Varanasi.
GHANSHAM DASS & BROS, 118/1 Khaushalpur, Kanpur; Ph: 215160. Branch: Naka Handola Chowk, Lucknow.
HANSARI EGG STORE, Faithful Ganj, Kanpur -- Abdul Satar.
KANPUR EGG STORE, BPS Market, Near Parade, Kanpur 208001; Ph: 69363; Karim Mula.
KHAISA EGGS STORE, Leader Rd, Allahabad -- Joginder Singh.
LUCKNOW EGG MART, Naka Handola Chowk, Lucknow; Ph: 48353.
LUCKNOW EGG STORE, Mehdi Bldg, Kesar Bagh, Lucknow 226001; Ph: 31452; Prop: Naim Mula.
POULTRY HOUSE, 2 Subhas Market, Opp Veterinary Hospital, Ramte Ram Rd, Ghaziabad 201001; Ph: 2165; K K Anand.
PUNJAB TRADERS, Kesar Bagh, Lucknow; Ph: 34328.
RAJ KUMAR, Shop No 8, Nehru Market, Englishia Line, Varanasi.
S R EGG STORE, 173 Char Bagh Market, Lucknow -- Gopi Chand.
SAIN DASS & BROS, 118/1 Kaushal Puri, Kanpur 208012; Ph: 218782, resi: 215441 -- Sain Dass, Ghanshyam.
SALIGRAM, Egg Merchant, Chakki Pat, Chhipitola, Agra 282001.
SHARAD TRADING CO, Ashish Bldg, Birhana Rd, Kanpur 208001; Prop: Smt Reena Jain
U P PASHU DHAN UDYOG NIGAM LTD, c/o Central Dairy Farm, Aligarh 202122; Ph: 3014.
YADAV, BUDH PAL, 126/20 Ashok Nagar, Ghaziabad 201001.
YOGENDRA SINGH, Redgate Bldg, Golaganj, Lucknow; Ph: 31879 (resi).
ZAWAR & SONS, Egg Merchants, Kesar Bagh, Lucknow 226018; Ph off: 32248, resi: 34506; Prop: Zafar Raza.

Information Data "BANK"

Many and varied are the ways in which this YEARBOOK could be useful to you as a :
Buyer's Guide to products and services ;
Databook of facts and figures ;
Manual of Management Practices ; and,
Who's Who of specialists and organizations.

West Bengal

ARAMBAGH HATCHERIES LTD, 59-B Chowringhee Rd, 3rd Floor, Calcutta 700020; Ph: 449324, 432179, 435873, Gram: Aramhatch; Dir: P K Roy; Mgr (Sales): S K Thapar.

BIRENDRA KUMAR DUTTA, Chakdaha, Nadia. Branch: Kabiguru Rabindra Path, Kanchrapara, 24-Parganas.

FREE INDIA EGG, Stall No 42A, Hog Market, Calcutta 700013; Prop: Rehamat Ali.

GOVERNMENT OF WEST BENGAL POULTRY MARKETING CENTRE, 42 Graham Rd, Tollygunge, Calcutta 700040; Ph: 465314; Dep Dir (Poul Mktg): Vacant; Special Offr (Eggs & Meat): Dr A K Deb.

MIDNAPORE DISTRIBUTORS, PO Mangalapur, Dist Midnapore; Ph: Amlagora-99; Prop: Asoke Kumar Nandi.

RABINDRA EGG AGENCY, 36 Chowranghee Lane, Calcutta 700001; Ph: 243039; Prop: Sachin Bhowmik

VICTORIA EGG STALL, No 10-11 Hog Market, Calcutta 700013; Ph: 246948; Prop: Mohammed M Ali.

National Egg Coordination Committee

NATIONAL EGG COORDINATION COMMITTEE (NECC), Central Office: 13/6 Milestone, Panshet Rd, PO Girinagar, Pune 411025;Ph:442244, 442748, 442663, 442561, Tlx: 0145-329.
Chmn: B V Rao
Vice-Chmn: V N Dubey & P V Soma Raju
Treasurer: C Jagapati Rao
Members, Exec Cttee: B L Manmchan Reddy (Hyderabad), K Lakshminarayana (Krishna Dist), Dr H S Shivanna (Mysore), C Sadananda Rao (Madras), J Janardan Rao (Warangal), Harbans Singh (Calcutta), H T Khorakiwala (Bombay), K Kumar (Chandigarh), J Gnanaclivu (Namakkal), Prabhat Verma (Jabalpur), H M Zainuddin (Bombay), Shivajirao Mohite (Satara), V Keshavaiah.
Managers (Coordination) — Hyderabad: 5-H Subhodaya Apartments, Bogulkunta, -500001; Ph: 237254-5, 236424, Tlx: 0155-724; Mgr: M Q Shan; New Delhi: 1797 Kotla Mubarakpur, -110003; Ph: 698178, Tlx: 031-5398; Mgr: N N Mohanasubramani; Pune: 13/6 Milestone, Panshet Rd, PO Girinagar, -411025; Ph: 442561, Tlx: 0145-329 & 319; Mgr: S K Murthi.

Zonal Offices

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CHAWLA & CO, Vijay Chowk, Krishna Nagar, Delhi 110051; Ph: 212463; Chief Exec: Dr P C Chawla.

FAQIR CHAND SHANTI LAL, WZ-19 Uggar Sain Market, Ashok Nagar, New Delhi 110018; Ph: 502231, 533499 (resi); Partners: F C Vij, S L Vij.

GUPTA CLINIC, Rohtak Rd, Nangloi, Delhi 110041; Ph: 807260.

KAILASH CHEMISTS, Basrurkar Market, Moti Bagh Part I, New Delhi 110021.

KAMAL MEDICAL STORES, near Bus Stop, Najafgarh, Delhi 110043; Ph: 806338; Verma.

KAPUR FEEDS, 579 Shivaji Marg, Najafgarh, New Delhi 110043; Ph: 806-453; Prop: Kamal Kapur.

KARTAR SINGH & SONS, 7223 Chowk Azad Market, Delhi 110006; Ph: 527918.

KAUSHIK MEDICOS, Khichripur Resettlement Colony, Delhi 110091.

MATWAL CHAND MADAN LAL, 7219-A, Pul Bangash, Chowk Azad Market, Delhi 110006; Ph: 524963 (off), 513287 (shop) & 500236 (resi).

MEDICINE CHAMBER, 1726/C Bhagirath Place, Delhi 110006; Ph: 234131, 235980.

MODERN FEED MILLS, 89 Vill & PO Chattarpur, Mehrauli, New Delhi 110030; Ph: 667292, 664992; Prop: Amar Nath Juneja, Ph resi: 653436, 663868.

MODERN FEED PRODUCTS, 40-41 Vill Chattarpur, Mehrauli, New Delhi 110030; Ph: 667292 (PP); Prop: Baldev Raj Juneja, Ph resi: 663868.

NEW DELHI FEED MILLS, 90 Vill Chattarpur, Mehrauli, New Delhi 110030; Ph: 651535, 669079; Mg Partner: Ramesh Chander.

SETH MEDICAL STORES, Railway Rd, Shahdara, Delhi 110032; Ph: 204355.

SUSHEEL TRADERS, 20/22 East Punjabi Bagh, New Delhi 110026; S L Chopra, Ph resi: 505075.

VIJAY MEDICAL STORES, S-27 Municipal Market, Ashok Nagar, New Delhi 110018; Ph: 533499; Partners: Vijay Vij, Anil Vij.

HARYANA

AMICHAND MAKHANLAL, Main Bazar, Gurgaon 122001; Ph: 22401.

BUDH SINGH POULTRY FEED DEALER, 32 Luxmi Garden, near ITI, Yamuna Nagar 135001, Ambala Dist; Ph: 5081; Partners: Budh Singh, Surinder Singh.

DHARAM PAL SUBHASH CHAND, Sapatu Rd, Ambala City 134003.

KARNAL MEDICINE TRADERS, Main Bazar, Karnal 132001 — Goel.

SUPER VET AGENCIES, Civil Rd, Rohtak; Ph: 3468; Prop: Ram Prakash Arora.

SWASTIK FEEDS, Vill & PO Balana, 7th Km, Hissar Rd, Ambala 134003, Ph: 56968; Partner: Dipen Jain.

HIMACHAL PRADESH

H P AGRO-INDUSTRIES CORPN CATTLE & POULTRY FEED PLANT, Parwanu 173220, Solan Dist; Production Mgr: Dr T K Ghosh, Ph: 19 (Kalka).

JAMMU & KASHMIR

SHRI BHAGWATI GENERAL MILLS, Purani Mandi, Jammu 180001; Ph: 5862, Gram: Bhagwati; Prop: Subhash Gupta, Ph resi: 46910.

MADHYA PRADESH

DRUG SALES COPPORATION, IDA Bldg, 4th Floor, 13-14 Jawahar Marg, Indore 452007; Ph: 35820, resi: 5841, 36285, Gram: Drugsale.

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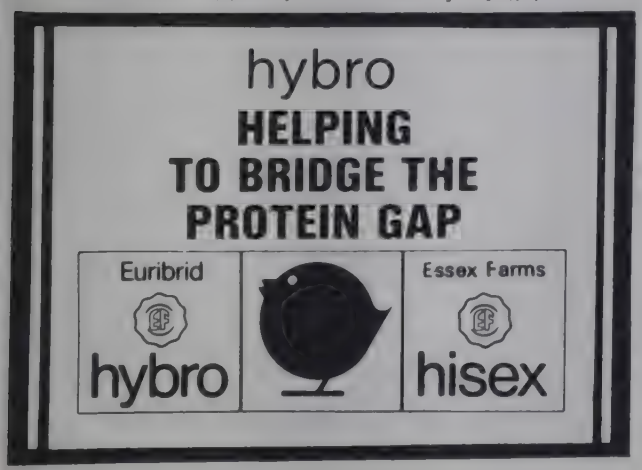
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MANOHAR MEDICAL STORE, 'A' Market, Sector 6, Bhilainagar, MP.
MEDICINE HOUSE, Tatiband, Raipur 492001 -- S P Nayar
MODY AGENCIES, 1115 Wright Town, Jabalpur 482001;Ph:26776;Partner:Pradeep Mody.

PUNJAB

ANAND MEDICAL STORES, S C F 16, Sector 19-C, Chandigarh 160019; Ph: 25860.
AURORA FEED MILLS, 14 Factory Area, Patiala 147001; Ph off: 5245; resi: 4704.
B M & BROTHERS, New Courts Rd, Civil Lines, near Shastri Market, Jalandhar 144001; Ph: 75732, 77844, Gram: Planto.
BRICO ORGANISERS, 99 Dr Sham Singh Rd, Bharat Nagar Chowk,Ludhiana 141002; Ph: 22199, Gram: Brico; Mg Partners: Manchar Lal Vij, Tilak Raj.
CHANAN RAM BRIJ MOHAN, Mandi Kesar Ganj, Ludhiana 141001; Ph: 22348, 28176 (resi); Mg Partner: Brij Mohan Kaura.
COMBINED MEDICAL STORE, S C F 9-10, Sector 19-C, Chandigarh 160019; Ph: 20208; Mg Partner: R L Bahl.
GILLS MEDICAL STORE, Civil Station,Shantinagar, Bhatinda 151001; Ph: 711 -- D S Gill
GULAB MEDICAL HALL, Bazar Sarafan, Ludhiana 141008; Ph: 31933 -- Dr Bhupinder Jain & Dr S P Jain, Ph resi: 35546.
GULRI & CO, Chowk Moni, Gulri Market, Amritsar 143001; Ph: 41282, Gram: Gulri; Partner: Gursharan Singh Gulri, Ph resi: 53282.
GURMAIL MEDICAL HALL, Pindi St, Ludhiana; Partners: Man Singh, Bhagwan Singh.
JANTA FEED STORES, G T Rd, Samrala 141114.
KAMSUN TRADERS, 2 Nirankari Market, Bharat Nagar Chowk, Ludhiana 141001; Ph:29677, 33043;Partners:Romesh Garg,Sham Sunder.
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R M AGENCIES, Mandi Kesarganj, Ludhiana 141001; Ph: 24911, Gram: Zimidara. Sales Depot: B-XXXII-IX Rahon Rd, Ludhiana; Ph: 28829; Mg Partner: Anil Thapar.
RAJINDER FEED MILLS, 100 Industrial Area, Chandigarh 160002; Jaswant Rai.
RAVI POULTRY FEED STORE, Nehru Garden, Jalandhar City 144001; Ph: 72095.
S M MEDICAL AGENCIES, 8 SCF, The Mall, Bhatinda 151001; Ph: 3632.
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SEHGAL AGENCIES, Hall Bazar, Amritsar 143001; Ph: 49675, Gram: Ceefa; Partner: Subhash Sehgal, Ph resi: 49168.
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CHAND AGENCIES, Madar Gate, PB No 185, Ajmer 305001; Ph: 23977, 21727, Gram: Rupali; Prop: Ramswaroop Agarwal.
DAYAL DAS PESSUMAL, Lal Kothi, Patan 332718, Ajmer Dist; Ph: 21134.
HOTCHAND RIJHUMAL, Parao, Ajmer.
JUBILEE MEDICAL STORES, Panch Bhatti, opp Veterinary Hospital, Mizra Ismail Rd, Jaipur; L K Chadha.
KRISHNA MEDICAL STORES, Naya Bazar, Ajmer; Ph: 21817.
MEWAR AGENCIES, Niwaru Rd, Industrial Area, Jhotwara, Jaipur 302102 -- Gian Chand
NEELAM AGENCIES, C-28 Naveen Villa, Raja Park, Jaipur 302004; Ph: 41297, Gram: Vetneelam; Prop: B S Sapra, Ph resi: 43012.
PUROHIT MEDICAL STORE, Vimla Market, Station Rd, Ajmer; Ph: 22687.
SAIFEE MEDICAL STORE, Chetak Circle, Udaipur.

SAPRA ENTERPRISES, A-132 Rama St No 4, Raja Park, Jaipur 302004; Ph: 41297; Mg Partner: Ashok Sapra, Ph resi:42569.

UTTAR PRADESH

AMAR AGENCIES, 119/530-A Darshanpurwa, Kanpur 208012; Ph: 21880, 21926, Gram: Vetfeed; Mg Partner: H S Kalra.

FRIENDS R MEDICURE CHEMISTS, Ramte Ram Rd, near Vet Hospital, Ghaziabad; Prop: Pramod Kumar Narula.

GULRI FEED SUPPLIERS, 4 Malaviya Rd, Laxman Chowk, Dehra Dun 248001; Ph: 25907; Mg Partner: R P S Gulri.

KHALSA STORE, Kesar Gunj, Lucknow 226001 — Kuldip Singh.

MANOHAR MEDICAL STORES, 165 Gangapur, Bareilly; Ph off: 74947, resi: 72912; Anil Kumar.

MEERA AGENCIES, 59/55 Birhana Rd, near Vet Hospital, Kanpur; Ph: 64405 (PP); Chief Exec: R N Pandey.

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Western Region

GUJARAT

GUJARAT MEDICAL STORE, Station Rd, Anand 388001, Kheda Dist; Mg Partner: P M Patel.

LAXMI SALES CORPORATION, Shiyabaug, Char Rasta, Vadodara 390001; Ph: 551382; Partner: Kiranbhai Shah, Ph resi:65362.

MEHUL AGENCIES, Behind Music College, Vadodara 390001; Ph: 55629; Mg Partner: Ghanshyambhai B Patel.

NATIONAL PHARMACY, Fatehganj, Baroda 390002; Ph: 63927; Prop: Ramesh C Patel

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WESTERN CHEMISTS, Near Muncipal Hospital, Opp Edward Washing Co, Anand 388001; Dilipbhai Patel.

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AKBARALLYS, Pharma-Vet Div, 2/1 Homji St, Fort, Bombay 400001; Ph: 256737, 311304 Gram: Akbarvet, Tlx: 011-2045 AKBR IN; Chief Exec: S Husain T Khorakiwala. Department Stores — Gen Mgr: Akhtar Shamsi; (1) Veer Nariman Rd, Fountain, Ph: 253921; (2) Santacruz (West), Ph: 6140612; (3) Chembur, Ph: 521694.

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FARM-VET CENTRE, Vadgaon-Maval, Dist Pune; Ph: 454.

KAPILA PASHU AUSHADHALAYA, opp Gokhale Hall, Laxmi Rd, Pune; Ph: 393124,392615

NITIN AGENCIES, Bohara Niwas, opp Municipal Library, Khadkeshwar, Aurangabad; Ph: 5612; Partner: Jaykumar Bohra.

ONKAR AGENCIES, 2 Madan Niwas, R H B Rd, Opp Sampson School, Mulund (West), Bombay 400080; Ph: 5617931 (resi), Gram: Vetsfair; Mg Partner: Harmohan Singh Batra.

PARKSON FEED & CHEMICAL CORPORATION, 251 Thakurdwar Rd, Agresan Bhuvan, 2nd Floor, Bombay 400002; Ph: 258634, Gram: Parkfeeds; Partners: H G Parekh & V G Parekh.

PASHUPAKSHI AUSHADHALAYA, 693 Budhwar Peth Pune 411002; Ph: 446616, 448617; Mg Partners: V D Kelkar, Milind Kelkar.

PRABHAT DRUG STORE, Vadgaon 412108, Maval, Pune Dist; Ph: 362 (Talegaon) — P T Gokhale

SANDEEP TRADING COMPANY, 1251 Trambak Darwaja, Nasik 422001; Ph: 76295 (shop), 72125 (resi); Mg Partner: H R Thole.

SOMANI INTERNATIONAL CORPORATION, 1510 Maker Chambers V, Nariman Point, Bombay 400021; Ph: 230344, 223543, 223549,Tlx: 011-6970 ADL IN, 011-5321 TSP IN; Pres: Vinay R Somani. Principals: Vineland Labs, USA.

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ANNAM GIRIDHARA RAO, Gudlavalleru 521356; Ph: 99.

AVICHEM, 16-7-382/19 Azampura Masjid, Hyderabad 500024; Ph: 50227; Prop: Dr Mohd Yunus.

BALAJI AGENCIES, Old Police Lane, Lalapet, Guntur 522003; Ph: 22474, Gram: Pashti; Mg Partner: P Satyanarayana.

BALAJI POULTRY ENTERPRISES, 17-1-137/C/7, Madannapet, near I S Sadan, Hyderabad 500659; Ph: 52004 (PP).

BEEKAY ENTERPRISES, Shop No 6, Gaddiannaram, Hyderabad 500660; Ph: 559304.

BHAVANI ENTERPRISES, Tanuku 534211, West Godavari Dist; Ph: 636; Prop: Atchutam.

BIO VAC AGENCIES, B-15, Co-operative Indl Estate, Balanagar, Hyderabad 500037.

EGG BANK, 5-9-36 New MLA Quarters Lane, Basheerbagh, Hyderabad 500029; Ph: 220315, Gram: Eggbank; Mg Partner: M Krishna Murty.

EMCO INDUSTRIES, Opp Royal Talkies, Sultan Bazar, Hyderabad 500001; Ph: 42709, 61447.

ESSEN ENTERPRISES, Peddibhotlavari St, Governorpet, Vijayawada 520002; Ph: 63201, 74110 (resi), Gram: Essenfeeds; Prop: P Satyanarayana.

J K MEDICAL HALL, Gandhi Rd, Karimnagar 505001, AP.

KRISHNA PHARMA, Turkayamjal, PO Saroornagar, Hyderabad 500035 — K Rami Reddy

NUTRICHEM INDUSTRIES, 14-41/1 Prashanti Nagar, Uppal, Hyderabad 500039; Ph: 851017, Gram: Agvet, Secunderabad; Chief Exec: Dr Y K Rao, Ph resi: 72247.

PASHUPATHY TRADERS, 169 T P Area, Tirupati 517501, AP.

PHARMA TRADERS (HYDERABAD), 4-3-147 Kandaswamy Lane, Sultan Bazar, Hyderabad 500001; Ph: 46047; Mg Partner: Laxminarayana.

PRAKASH VETERINARY MEDICAL HALL, Mankammathata, Karimnagar 505002; Ph: 2633; Prop: M Madusoodan Rao.

PRAMILLA POULTRY CENTRE, 139/35 United Builders Complex, Sarojini Devi Rd, Secunderabad 500003; Ph: 822485; Mg Partner: Bhaskar.

RAMAVENKATARAJAM & SONS, Swami Vivekananda Rd, Warangal 506002; Ph: 3263.

SHANCO ENTERPRISES, Benz Company Centre, Vijayawada 520006; Ph: 52025; Prop: M Shan Mohan. Branch: Friends Enterprises, Challapalli.

SHILPI AGENCIES, Patamata, Vijayawada 520006; Ph: 52122; Prop: S Narayana Rao

SRI RAJKAMAL ANIMAL FEED AGENCIES, Allipuram, Main Rd, 32-26-55 (I), Visakhapatnam 530004; Ph: 61378; Prop: Varahalaraju K, Ph resi: 2870.

SRI THIRUPATHI MEDICAL AGENCIES, Trunk Rd, Nellore 524001; Ph: 4029.

SRINI POULTRY FEEDS & HEALTH SERVICES, 14-1-72, Nehru St, Tirupati 517501; Ph: 3220, Gram: Srini; Prop: Dr C Raghurama Raju, Ph resi: 3259; Sr Poul Advisor: S Narayana Reddy. Branch: Jayarama Rao St, Kalahasti; Ph: 255; Mgr: K V Chalam.

SRINIVAS POULTRY AGENCIES, 8-33/E/2 Dilsukhnagar, Hyderabad 500660; Ph: 559567; Mg Partner: M Lakshmana Rao.

TIRUMAL VETERINARY PRODUCTS, Bhola Shopping Complex, Hanamkonda, Warangal 506001; Ph: 7764; Mg Partner: Laxmichand.

TIRUMALA TRADERS, 16-7-739 Osmanpura, Malakpet, Hyderabad 500024; Ph: 52563; Mg Partner: Damodar.

USHA AGRO VET AGENCIES, 5-9-22/84 Adarsh Nagar, Hyderabad 500463; Ph: 35566; Mg Partner: Dr K Butchi Kotaiah; Partner: K Sridhar.

VENKATESHWARA PF, 16-149 Sarad Talbura Rd, Gudivada 521301; Ph: 676; Mg Partner: Benaraji.

VENKATESHWARA RAO, Dr M, Hanumanthawaka, Visakhapatnam 530001; Ph: 45410, 3722 (resi).

VENKATESWARA POULTRY ENTERPRISES, 17-9-111 Saidabad, near Police Station, Hyderabad 500659; Ph: 45691.

KARNATAKA

AGRO-VET PHARMA DISTRIBUTORS, No 2/1, II Cross, J C Rd, Behind Prasad Agarwal, Bangalore 560002; Ph: 228150.

ARUN MEDICALS, Chandragupta Rd, Mysore 570001; Ph: 21012; Venkatesh Balu.

ATTIGERI MEDICAL STORES, Corporation Bldg Stall No 1, Lamington Rd, Hubli 580020; Ph: 4679.

ATLANTA MEDICAL CO, Kithanur, Bagalur Rd, Bangalore 560077; Partner: T S Narayana Shetty

BELGAUM DISTRICT POULTRY FARMERS CO-OP SOCIETY LTD, Veterinary Hospital Compound, Belgaum 590001.

BELLARY AGRO-VET DISTRIBUTORS, No 96/III, Kalamma St, opp Vet Hospital, Bellary 583101; Ph: 3146.

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GTC CONSUMERS COOPERATIVE SOCIETY LTD, Belgaum Rd, Dharwad 580005.

KAMADHENU MEDICAL STORES, Traffic Island, Hubli 580020; Mg Partner: Shanbang; Branch: Dharwad.

KARNATAKA AGRO-INDUSTRIES CORPORATION LTD, Anim Health Div, 45 J C Rd, Bangalore 560002; Ph: 228940; Mgr: J C Sanjappa; Asst Pharmacist: V Saravanabavan.

KARNATAKA AGRO-VET TRADERS, 2190, II Stage, Rajajinagar, Bangalore 560010; Ph: 366803; Prop: Byllappa.

KASI TRADERS, 228 Cottonpet (near Post Office), Bangalore 560053; Ph off: 27812, Depot: 28775; Mg Partner: K R Chandrasekhara Setty; Mgr: R G Prakash. Regd Off: 37, I Cross, Subramanaya Lane, Akkipet, Bangalore 560053. Sales Depot: 16 'G' Block, Sri Balaji Complex, Sulthanpet, Bangalore 560053.

KOTESWARA ENTERPRISES, Bangalore Rd, Bellary 583101.

LAKSHMI VENKATESHWARA & CO, opp Vet Hospital, HRG Circle, Bellary 583101; Mgr: Abdul Majid.

MANDAR ENTERPRISES, 87 Lalbagh Fort Rd, Bangalore 560004; Ph: 611190; Partner: Prabhu S Hiremath; Mgr: T S K Swamy.

MYSORE DISTRICT POULTRY FARMERS CO-OP SOCIETY LTD, Taluk off Bldg, Vet Hospital Compound, Dhanwantry Rd, Mysore.

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SOUTH KANARA DISTRICT POULTRY FARMERS CO-OP SOCIETY LTD, Jail Rd, Mangalore 575003, Karnataka.

SOUTHERN AGRO-VET ENTERPRISES, 18 St Patrick's Shopping Arcade, Brigade Rd, Bangalore 560025; Ph: 54118; Prop: Commie Santamaria.

SULAMAN TRADERS, 16/1 T C M Royan Rd, Behind Vet Hospital (Mysore Cross Rd), Bangalore 560053; Ph: 622277, 609412, 609712 (resi), Gram: Mygod.

SUMATHI AGENCIES, 35 Dr D V Gundappa Rd, Basavangudi, Bangalore 560004; Ph: 606081, 602692 (resi), 608676 (godown); Partner: S Narayana Murthy.

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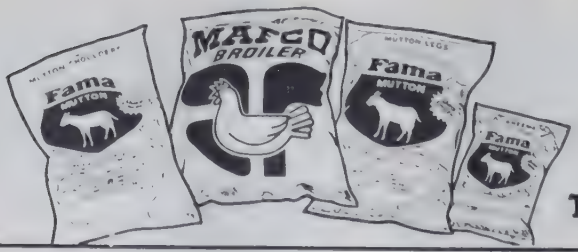


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Government

Government of India

Area: 3,277,782 sq km (22 States & 9 Union Teritories) Population: 748 million

Poultry Population: 208 million

Egg Production: 14,200 million Broiler Production: 75 million

Per Capita Availability/year

Eggs: 19.3 Meat: 245 gm

Ministry of Agriculture, Department of Agriculture & Cooperation, Krishi Bhawan, New Delhi 110001; Ph: 388911, Gram: Agrindia-A, Tlx: 031-4497 AGRI IN.
Minister for Agriculture: Sardar Buta Singh, Ph: 381129
Minister of State for Agriculture & Cooperation: Yogendra Makwana, Ph: 382113
Secretary: M Subramanian, Ph: 382651
Additional Secretary: B S Sarao, Ph:383549

ANIMAL HUSBANDRY DIVISION

Animal Husbandry Commissr: Dr O N Singh, Ph: 382608, resi: 674705
Dep Sec: K G Krishnamoorthy, Ph: 384551, resi: 584030
Poultry Dev Unit — Jt Commissr (Poul): Dr Sohan Singh Saini, Ph: 389620, resi: 670324; Dep Commissr (Poul): Dr B S Rao, Ph: 381507; Asst Poul Dev Offr: Dr S C Virmani, Ph: 384858,388911 Ext 711; Sr Tech Asst: Dr Prabhu Dayal Chhabhra, Ph: 388911 Ext 436.
Livestock Health — Jt Commissr (L H Surveillance): Dr S C Mathur, Ph: 384858, resi: 605650; Dep Commissr (LH): Dr J S Uppal, Ph: 389606, resi: 673522; Consultant: Dr J M Lall. Animal Quarantine & Certification Service: Delhi-Gurgaon Rd, Kapashera; Regl Offr: Dr V Nagaraja, Ph: 393271; Asst Commissr (Anim Quarantine): Dr D Krishnan.
Meat & Meat Products — Jt Commissr (M&MP): Dr A K Chatterjee, Ph: 389714, resi: 604432.
Livestock Production — Jt Commissr: Dr A N Ghosh, Ph: 384553, resi: 675690.
Animal Husbandry Statistics — Jt Dir: A S Chopra, Ph: 389301; Dep Dirs: C L Malik, Ph: 383313, K R Prasad, Ph: 388911 Ext 762, S P Singh, Ph: 388911 Ext 711.
Crops Div — Dir (DLF), Incharge Feeds & Fodder: S S Chibber, Ph: 389505.
Trade Div — Jt Sec: B C Sarma, Ph: 384902, resi: 671525; Dir: G Ramachandra, Ph: 389041.
Credit Div — Dir: N K Garg, Ph: 381012; Dep Sec: B L Kansal, Ph: 381311.
International Cooperation Div — Dir: Sunil Sud, Ph: 386681.
Cooperation Div — Chief Dir: K Sundararajulu, Ph: 383309.
Public Relations — Dir (PR): S C Kacktwana, Ph: 382416, resi: 388741; Asst Information Offr: B K Sinha, Ph: 382416.

• • • • •

Dept of Rural Development, Krishi Bhawan, New Delhi 110001; Ph: 383911, Gram:Vikas.
Sec: D Bandyopadhyay, Ph: 384467
Addl Sec: J C Jetli, Ph: 382408
Jt Sec: S Roy, Ph: 385027
Jt Sec (IRD): Inder Jit Khanna, Ph: 382313
Dir (IRD): Ms A K Ahuja, Ph: 381756
Dir (Rural Women Prcgramme): Ms Gauri Dhar, Ph: 384980
Dep Sec (IRD): Ms V Puri, Ph: 384541
Dep Sec (MF): Yogesh Chandra, Ph: 383880
Asst Commissr: Brij Bhushan
Animal Husbandry Cell — Block 11, CGO

Complex, Lodhi Rd, New Delhi 110003; Dep Commissr: Dr Iqbaluddin, Ph:623569.

Agricultural Marketing -- Adviser: Smt Anita Chaudhary, Ph: 624309;Jt Adviser: Dr G R Bharia, Ph:81-2291 to 4 (Faridabad); Dep Adviser: Dr G Gopala Rao, Ph: 81-3991 (Faridabad).

• • • • •

Council for Advancement of Rural Technology (CART), Guru Nanak Foundation Bldg, New Mehrauli Rd, New Delhi 110006; Dir-Gen: T Balakrishnan, Ph: 665107.

Indian Agriculture Statistics Research Institute (IASRI), Library Avenue, New Delhi 110012; Ph: 581479; Dir: Dr Prem Narain.

Indian Council of Agricultural Research (ICAR), Krishi Bhawan, Dr Rajendra Prasad Rd, New Delhi 110001; Ph:388991; Dir-Gen: Dr N S Randhawa, Ph: 382629; Dep Dir-Gen (Anim Scs): Dr R M Acharya, Ph: 382545; Asst Dir-Gen (Anim Prcd & Breeding): Dr C L Arora, Ph: 389526; Asst Dir-Gen (Anim Health): Dr C Natarajan, Ph: 389040; Asst Dir-Gen (Dairying & Anim Prcducts Tech): Dr S C Jain, Ph: 387515.

Indian Standards Institution, Manak Bhavan, 9 Bhadurshah Zafar Marg, New Delhi 110002; Ph: 3310131, 3311375, Gram: Manaksanstha, Tlx: 031-3970; Agri & Food Div -- Dir: T Purnandam, Ph: 3311128; Jt Dir (Dairy Products & Eqpt): S K Sud; Dep Dir (Anim Feeds, Eqpt, etc): Lajinder Singh, Ph:3310131 Ext 287, resi: 655660.

Military Farms Directorate, Wing No 7, Room No 53, West Block III, R K Puram, New Delhi 110066; Ph: 606611 Ext 242; Dep Dir-Gen: Brig Dilbagh Singh, Ph: 606543; Dir: Col N B Subramanian, Ph: Ext 243; Jt Dir: Lt-Col Avtar Singh, Ph: Ext 247.

NAFED (National Agricultural Cooperative Marketing Federation of India Ltd), Sapna Building, 54 East of Kailash, PB No 3580, New Delhi 110065; Ph: 6432401, Gram: Nafed, Tlx: 31-3254, 31-61065; Chmn: Kamaluddin Ahmed; Mg Dir: G K Sharma, Ph: 6418191; 6431238; Addl Mg Dirs: S K Iyer & Mrs Sudha Anchlia, IAS, Ph: 6431796; Proj Offr (Poul): Dr S P Sethi, Ph:6411937, resi: 624682.

National Bank for Agriculture and Rural Development (NABARD), Shriniketan, Dr A B Rd, Worli, PB No 6552, Bombay 400018; Ph: 4924306-9, Gram: Agrefinans, Tlx: 011-2810; Mg Dir: Sant Dass; Gen Mgr (Tech): Dr B S Sathe.

National Cooperative Development Corporation, 4, Siri Institutional Area, Behi Hauz Khas, New Delhi 110016; Ph: 66603 Gram: Copcorp, Tlx: 3559; Mg Dir: R V Gupta, Ph: 660314, resi: 661-851; Gen Mgr: S K Arora, Ph: 669247, resi:65393 Chief Dir (Mktg & Storage): Dr Mahendr S Pradhan, Ph: 665498, resi: 6412072; Consultant: Dr S P Sharma, Ph: 666032, 511824 (resi).

People's Action for Development (India) (PADI), Bharat Krishak Samaj Bldg, A-1 Nizamuddin West, New Delhi 110003; Ph: 615857; Gen Sec: T Balakrishnan, Ph: 665107; Jt Gen Sec: Ashok Jaitley, Ph: 665107; Jt Commissr: Dr Zafar Ali; Dep Commissr: Dr R Krishnaiah; Dep Dir B K Pathak.

Planning Commission, Yojana Bhavan, Parliament St, New Delhi 110001; Ph: 385481; Adviser (Agri): Dr N Kanungo, Ph:38195 Dep Adviser (AH): Dr B Sanyal, Ph: 389742, resi: 608005; Sr Research Offr Dr B K Aggarwal, Ph: 385481 Ext 407.

Processed Foods Export Promotion Council, 105 New Delhi House, 27 Barakhamba Rd, New Delhi 110001; Ph: 3313954, 3312692 Gram: Profod, Tlx: 4282; Sec: P S Srinivasan, Ph (resi): 624243; Asst Sec: B K Iyengar, Ph (resi): 663387.

Remount & Veterinary Corps, Wing No 2, West Block No III, R K Puram, New Delh 110066; Ph: 606611 Ext 262, 263, 255; Dir-Gen: Maj Gen R K R Subramaniam, Ph 603832; Dirs: Col R N Kacker, Ph: Ext 263, Col G S Ranga Rao, Ph: Ext 279; Jt Dirs: Lt-Col S Thomas, Lt-Col V Bhushan, Maj V N Kapre.



State Governments

Andaman & Nicobar

Area: 8,293 sq km Population: 188,254

Capital: PORT BLAIR

Estd egg production (1984-85): 10 mill

Directorate of Animal Husbandry & Veterinary Services, Port Blair 744101; Ph: 2326, 2796, Gram: Dirvet.
Dir: Dr S Raunaq Hussain, Ph: 2326
Poul Dev Offr: Dr B Mahto
Head, Statistical Cell: S K Tripathi, Ph: 2796

Andhra Pradesh

Area: 276,814 sq km Population: 53,403,619

Capital: HYDERABAD

Estd egg production (1984-85): 2,500 mill

Animal Husbandry Department, Shantinagar, Vet Biological & Research Institute Compound, Hyderabad 500028; Ph: 36852.
Dir: Dr K Hanumantha Rao, Ph: 35297, resi: 34596
Addl Dir (Production): Dr Viswaraj, Ph: 36852
Addl Dir (Health): Dr K L Dutt, Ph: 36852, resi: 34596
Jt Dir (DPAP): Dr Y Umamaheshwara Rao
Jt Dir (Statistics): Dr S Radhakrishna
Dep Dir (Epid): Dr S Ramanadham
Dep Dir (P & E): Dr P Chandrasekhara Rao
Asst Dir (Tech): Dr L Mohan, Ph: 36852, resi: 262339
Regional Jt Dirs -- Hyderabad: Dr M Yogi Reddy, Ph: 36746; Kakinada: Dr R Panduranga Rao, Ph: 3651; Karimnagar: Dr Rajeshwar Rao, Ph: 2698; Khammam: Dr T Chaleriah, Ph: 8564; Nellore: Dr A Y Krishna, Ph: 3394; Nizamabad: Dr P Nandaiah, Ph: 476.
Dist Offrs -- Dep Dirs -- Eluru: Dr S Venkateshwar Rao, Ph: 998; Prakasam: Dr S Madhusudhan, Ph: 3168; Vizianagaram: Dr Y Narainmurthy, Ph: 3364.
Livestock Production Programme -- Dep Dirs -- Adilabad: Dr P Venkateshwarlu, Ph: 484; Chittoor: Dr C Sivaramkrishnaiah, Ph: 3138; Cuddapah: Dr C Janardhan Singh, Ph: 2289; Guntur: Dr V Subba Rao, Ph: 21309; Kakinada: Dr M Narasimla Naidu, Ph: 3651; Karimnagar: Dr K Pattabhirammurthy; Khammam: Dr T V Lokanadha Rao, Ph: 8524; Kurnool: Dr K V Ramana Reddy, Ph: 20576; Machilipatnam: Dr P Mallikarjun Rao; Mahaboobnagar: Dr R Laksmi Rajan; Medak: Dr P Achambotlu, Ph: 477; Nalgonda: Dr M Narayan Reddy; Ranga Reddy: Dr A Hemraj, Ph: 36754; Srikakulam: Dr S Madhusudhan Rao, Ph: 418; Warangal: Dr M A Haleem, Ph: 7307.
Drought Prone Area Programme (DPAP) -- Jt Dirs -- Ananthapur: Dr D Rajasekhar Naidu, Ph: 3264; Chittoor: Dr C Sivarama Krishnaiah, Ph: 2379; Cuddapah: Dr P Vishwanatha Pillai, Ph: 2525; Kurnool: Dr Syed Naseeruddin, Ph: 21137; Mahaboobnagar: Dr K Venkateshwara Rao, Ph: 2291.

Arunachal Pradesh

Area: 83,578 sq km Population: 628,050

Capital: ITANAGAR

Estd egg production (1984-85): 25 mill

Directorate of Animal Husbandry & Veterinary, Nirjuli, Naharlagun 791110; Ph: 303, Gram: Vetarun.
Dir: Dr G C Kakati, Ph:303, resi: 231
Jt Dir: Vacant
Dep Dir (Anim Production): Dr K R Deori
Dep Dir (AH): Vacant
Dep Dir (Poul): Dr A B Chanda
Fodder Dev Offr: S P Thapa
Tech Asst: Dr M M Das
Dist AH & Vet Offrs -- Along, West Siang Dist: Dr N C Deka, Ph: 90, resi: 82;

Bomdila, West Kameng Dist: Dr P C Rajkumar, Ph: 95, resi: 70; Changlang: Dr M M Seal; Daporijo, Upper Subansiri Dist: Dr U K Phukan, Ph: 78; Khonsa, Tirap Dist: Dr B R Bora, Ph: 53; Pasighat, East Siang Dist: Dr B Deori, Ph: 98; Roing, Diabng Velley: Dr K K S Nair; Seppa, East Kameng Dist: Dr S N Saikia; Tawang: Dr G Nair; Tezu, Lohit Dist: Dr P K Sharma, Ph: 65, resi: 20; Ziro, Lower Subansiri Dist: Dr G C Gohain, Ph: 84, resi: 85.

Regional Dep Dirs -- Diang, West Kameng Dist: Dr J Bora; Kamki, West Siang Dist: Dr P C John; Loiliang, Lohit Dist: Dr N N Gogoi; Nirjuli, Lower Subansiri Dist: Dr M K John, Composite Livestock Farm, Ph: 362; Pasighat, East Siang Dist: Dr B Bora; Sangti, West Kameng Dist: Vacant.

Disease Investigation Offrs -- Nirjuli, Lower Subansiri Dist: Dr D Shyam; Parasitologist: Dr N C Rajan.

Key Vill Offr, Pasighat, East Siang Dist: Dr M Mathew.

Assam

Area: 78,523 sq km Population: 19,902,826

Capital: DISPUR

Estd egg production (1984-85): 349 mill

Animal Husbandry & Veterinary Department, M C Rd, Guwahati 781003; Ph: 24609, Gram: Veterinary.

Dir: Dr Pratap Chandra Pathak, Ph: 24609, resi: 27486

Addl Dir (SLPP): Dr I N Bhuyan, Ph: 28389, resi: 23774

Addl Dir (Hills): Dr P C Das

Addl Dir (Biological Products): Dr D Das

Dep Dir (Poul): Dr J C Saikia, Ph: 25691, Gram: Dydpoul

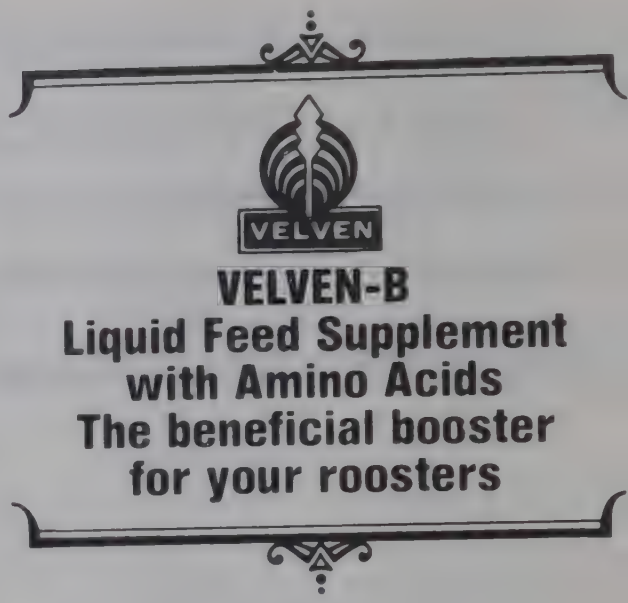
Dep Dir: Dr N Ahmed, (Broiler), NEC, Birubari, Guwahati; Ph: 24341

Poul Dev Offr (ANP): Dr K Das, Ph: 25691

Res Offr (Breeding): Dr A Kalam, Ph: 87370

Mktg Offr, Livestock: Dr T Saikia, Ph: 28210

Vet Information Offr: M K Deb, Ph: 23291



Bihar

Area: 173,676 sq km Population: 69,823,154

Capital: PATNA

Estd egg production (1984-85): 1,000 mill

Animal Husbandry Department, New Secretariat, Patna 800015; Ph: 24963, Gram: Pashupalan.

Commissr, AH & Fisheries: B P Verma, IAS, Ph: 24351, resi: 22835

Spl Sec, AH & Fisheries: A K Mukherjee, IAS, Ph: 21505, resi: 62768

Addl Sec, AH & Fisheries: S M Okesh, IAS, Ph: 25576, resi: 31712

Dep Sec, AH & Fisheries: A K Sinha, Ph: 23651, resi: 31673

Under Secs, AH & Fisheries: S R Pandit, P N Thakur

Dir: Dr H S Sinha, Ph: 24962, resi: 31363

Jt Dir (HQ): Dr R S Sharma, Ph: 23776, resi: 31094

Jt Dir (Plg & Proj): Dr S B Choudhry

Jt Dir (Anim Health): Dr G Bara, Ph: 23173 resi: 21544

Jt Dir (Poul): Dr P Lakra

Jt Dir (Fodder): Dr R N Singh, Ph: 32392, resi: 62153

Spl Dep Dir (Statistics): K K Shrivastava, Ph: 24516
Dep Dir (HQ): Dr K N Jha
Dep Dir (Plg): Dr N Ahmed
Dep Dir (Credit Plg): Dr R Ram
Dep Dir (Info & Extn): J Prasad Sharma, 'Jwala', Off Polo Rd, Patna 800002; Ph: 25872
Poul Dev Offr: Dr J J Tigga, Ph: 24516
Regional Dirs of AH — Bhagalpur: Dr Md Hamid, Ph: 84, resi: 479; Chapra: Dr B N Verma, Ph: 2461; Darbhanga: Dr B D Sinha, Ph: 2250; Dumka: Dr S M Thakur; Gaya: Dr S M Ram, Ph: 1421; Hazaribagh: Dr R R Rama, Ph: 2724; Hinoo Range: Dr J P Verma, Ph: 22837, resi: 8667; Muzaffarpur: Dr R Singh, Ph: 2249, resi: 2368; Patna: Dr S S Mishra, Ph: 22996, resi: 31456; Saharsa: Dr D N Yadav.
Dist AH Offrs — Aurangabad: Dr R R P Singh; Begusarai: Dr B P Yadav, Ph: 200; Bettiah: Dr A Samad; Bhagalpur: Dr S P Singh, Ph: 920; Bhojpur, Arrah Dist: Dr N P Singh, Ph: 444; Chaibasa, Singhbhum Dist: Dr P Chakravarty, Ph: 399; Daltonganj: Dr G S Prasad, Ph: 504; Darbhanga: Dr A N Singh, Ph: 2180; Deoghar: Dr R K Prasad; Dhanbad: Dr R D Pathak, Ph: 2552; Dumka: Dr R K Prasad; Gaya: Dr K P Sinha, Ph: 302; Giridih: Dr G P Singh; Godda: Vacant; Gopalganj: Dr Jairam Pandit; Gumla: Vacant; Hazaribagh: Dr Trigunand, Ph: 2438; Hinoo: Dr Bidya Bhushan, Ph: 23191; Katihar: Dr S B Taruhar; Khagaria: Dr A N Singh, Ph: 83; Lohardaga: Vacant; Madhepura: Dr I Singh; Madhubani: Dr J P Yadav; Motihari: Dr G M Kumar, Ph: 225; Munger: Dr N Ansari, Ph: 2280; Muzaffarpur: Dr J Prasad, Ph: 2481; Nalanda: Dr O P Diwakar, Ph: 216; Nawada: Dr G Sinha, Ph: 73; Patna: Dr B K Sinha, Ph: 25306; Purnea: Dr B N Upadhyay, Ph: 90; Rohtas: Dr S P Pandey, Ph: 229; Saharsa: Dr R K Sah, Ph: 64; Sahibganj: Vacant; Samastipur: Dr Z Imam, Ph: 578; Saran: Dr R P Yadav, Ph: 461; Sitamarhi: Dr N D Singh; Siwan: Dr S Ali, Ph: 87; Vaishali: Dr Chandradip Sinha.
Asst Dirs (Poul) — Barauni: Dr T Prasad; Biharsarif: Dr B Jha; Chaibasa: Dr J Lakra; Chapra: Dr R N Singh; Dhanbad: Dr K M Singh; Hazaribagh: Dr R Ram; Jamshedpur: Dr A Swarcop; Katihar: Dr S B Taruhar; Khunti: Dr G Baitha; Nalanda: Dr B Jha; Saran: Dr R N Singh; Tekuna: Dr K P Singh.
Chick Rearing Centres — Dist AH Offrs — Baunsi (Bhagalpur); Bettiah (West Champaran); Chapra (Saran); Daltonganj (Palamu); Darbhanga; Dumka; Gaghra (Ranchi); Giridh Dumri; Gobindpur (Dhanbad); Jamtara (Dumka); Kanke (Ranchi); Mandar (Ranchi); Mokama (Patna); Munger; Nawada; Purnea; Saharsa; Simokga (Ranchi); Topehanchi (Dhanbad); West Bokaro (Hazaribagh).
Special Livestock Production Programme — Proj Offrs — Dhanbad: Dr S N Sinha; Munger: Dr A R Ansari; Patna: Dr B B Prasad Singh; Purnea: Dr B N Upadhyay; Ranchi: Dr J M Kujur; Rohtas Sasaram: Dr S P Pandey.
Intensive Egg and Poultry Production Centres — Asst Dirs (Poul) — Barauni, Begusarai: Dr R L Singh; Bokaro, Dhanbad: Vacant; Chaibasa, Singhbhum: Dr D Sharan; Daltonganj, Palamu: Dr D N Majumdar; Dumka, Santhal Pargana: Dr R K Prasad; Jamalpur, Munger: Dr A R Ansari; Jamju, Munger: Dr R L Singh; Jamshedpur: Dr Satyamurti; Khunti, Ranchi: Dr G Baitha; Muzaffarpur: Dr S A Hanan; Nawada: Dr D Sharma; Patna: Dr S Jalal Ahmad; Ramgarh, Hazaribagh: Vacant; Ranchi: Dr N K Verma; Sasaram: Dr N Kumar.

Dadra & Nagar Haveli

Area: 491 sq km Population: 103,677
Capital: SILVASSA
Estd egg production (1984-85): 2.8 mill

Animal Husbandry Department, Silvassa 396230.
AH-cum-Vet Offr: Dr M S Khan.

Delhi

Area: 1,485 sq km Population: 6,196,414
Estd egg production (1984-85): 67 mill

Animal Husbandry Department, Delhi Administration, Old Secretariat, Delhi 110054; Ph: 2512285.
Dep Dir: Dr Shivender Singh, Ph: 2512285
AH Expert: Dr Lachman Singh, Ph: 2512285
Asst Res Offr: Dr S M Dahiya, Ph: 672161
Special AH Programme — Block Dev Offrs —

Mehrauli: Vacant, Ph: 650566; Shahadra: Ishwar Dass, Ph: 212142.

Goa

Area: 3,813 sq km Population: 10,86,730

Capital: PANAJI

Estd egg production (1984-85): 16 mill

Office of the Director of Animal Husbandry & Veterinary Services, Panaji 403001; Ph: 5381, Gram: Veterinary.
Dir: Dr A S Wagle, Ph: 5381
Poul Dev Offr: Dr A Sequeira Nazareth, Ph: 5591
Credit Planning Offr: J A P A Noronha, Ph: 5591
Poul Ext Offr: V R Phadte

Gujarat

Area: 195,984 sq km Population:34,085,799

Capital: GANDHINAGAR

Estd egg production (1984-85): 220 mill

Directorate of Animal Husbandry, Krishi Bhavan, Paldi, Ellisbridge, Ahmedabad 380006; Ph: 79601, 79602, Gram: Pashupalan.
Dir Incharge: Dr D V Mokashi, Ph: 78447, resi: 440828
Jt Dir (AH): Dr B N Jani, Ph: 77457
Jt Dir (P & C): Dr D V Mokashi, Ph: 78447, resi: 440828
Jt Dir (SPP): Dr S H Dhulkhed, Ph: 78216
Poul Dev Offr: Dr M V Mahishi, Ph: 79601-2, resi: 444762
Poul Geneticist: Dr A G Mathew
Vet Offr (Poul): Dr G A Shaikh
Regional Jt Dirs -- Ahmedabad: Dr C H Joshi, Ph: 66256; Rajkot: Dr V G Desai, Ph: 23588; Vadodara: i/c Dr M P Burli, Ph: 63357.
Intensive Poul Dev Blocks -- Prcj Offrs -- Chanvai (Valsad): Dr R M Kulkarni, Ph: 138 (Atul Ex); Dahod (Panchmahals): Dr K R Date, Ph: 260, resi: 408; Himatnagar (Sabarkantha): Dr M S Amin, Ph: 860; Junagadh: i/c Dr H B Desai, Ph: 746; Makarba (Ahmedabad): Dr F G Master, Ph: 413185; Nadiad (Kheda): Dr G H Momin; Surat: Dr G Y Umarji, Ph: 87238, resi: 87748; Vadodara: Dr R B Shukla, Ph: 63357; Valia (Bharuch): Dr S R Gurjar, Ph: 37; Vyara (Surat): i/c Dr J C Vyas, Ph: 217.
Dist Poul Ext Projects -- Ext Offrs -- Ahwa-Dang: Dr R A Vyas; Bhavnagar: Dr J S Gohel, Ph: 23997; Bhuj (Kutch): i/c Dr P N Makadia, Ph: 1318; Jamnagar: Dr M L Dave, Ph: 76958; Palanpur (Banaskantha): Dr C B Patel, Ph: 2034.
Poul Training Centres -- Chanvai (Valsad), Dahod (Panchmahals), Himatnagar (Sabarkantha), Jamnagar, Junagadh, Makarba (Ahmedabad), Palanpur (Banaskantha), Rajkot, Surat, Vadodara.
Special Programme (SFDA/MFAL) -- Dep Dir (Credit): N K Parmar; Dep Dir (Breeding): Dr P M Joshi; Dep Dir (Nutrition): i/c Dr P M Joshi.
Special Project Programme -- Proj Offrs -- Ahmedabad: Dr G D Dave; Junagadh: i/c Dr A M Madhvi; Vadodara: Dr M P Burli; Valsad: Dr P L Gohel.

Haryana

Area: 44,222 sq km Population: 12,850,902

CHANDIGARH

Estd egg production (1984-85): 210 mill

Directorate of Animal Husbandry, SCO 80-81, Sector 17-C, Chandigarh 160017; Ph: 24735, Gram: Pashupalan.
Dir: Dr (Capt) S N Sharma, Ph: 24735, resi: 24165
Jt Dir (Planning): Vacant, Ph: 29110
Jt Dir: Dr P L Chada, Ph: 28334
AH Expert (Special Cell): Dr S P Rana, SCO 183-85, Sector 17-C, Chandigarh 160017; Ph: 29136
Dep Dir (AH): Dr Ghansham Dass, Ph: 28334
Poul Dev Offr: Dr V P Malik, Ph: 22726; Off: Sector 19-B, Chandigarh 160019
Credit Planning Offr: Dr A N Goyal, Ph: 29110
Asst Poul Dev Offr: Dr S K Vats, Ph: 57097; Off: Govt Poul Farm, Ambala City
Asst Dir (Poul) & Incharge Govt Hatchery & Poul Farm: Dr Mohinder Pal Sarpal; Off: Sirsa Rd, Hissar
Poul Disease Investigation Offr, Sonepat:

Dr Banwari Lal Sharma
Rural Dev Agencies -- Addl Dep Commissr-cum-Chief Exec Offrs -- Ambala 134001: Sajan Singh, IAS, Ph: 56246; Bhiwani 125021: N K Tandan, IAS, Ph: 2349; Faridabad 121002: Ram Singh, IAS, Ph: 3335; Gurgaon 122001: Smt Urgashi Gulati, IAS, Ph: 2710; Hissar 125001: Sajjan Singh, IAS, Ph: 2692; Jind 126102: Smt Padmini Desikachar, IAS, Ph: 341; Karnal 132001: P K Choudhary, IAS, Ph: 3584; Kurukshetra 132118: Jagbir Singh, IAS, Ph: 756; Narnaul (Mohindergarh) 123001: Ajit M Sharan, IAS, Ph: 62; Rohtak 124001: N K Jain, IAS, Ph: 2589; Sirsa 125055: Samir Mathur, IAS, Ph: 3279; Sonepat 131001: S C Chaudhary, IAS, Ph: 3192.
Dep Dirs -- Ambala 134003: Dr K S Lal, Ph: 57225; Bhiwani 125021: Dr D D Sharma, Ph: 2470; Faridabad 121002: Dr H K Sood; Gurgaon 122001: Dr Mukhtiar Singh, Ph: 2415; Hissar 125001: Dr O P Gupta, Ph: 2230; Jind 126102: Dr V D Hooda, Ph: 229; Karnal 132001: Dr Sube Singh, Ph: 2805; Kurukshetra 132118: Dr V K Kashyap, Ph: 126; Narnaul (Mohindergarh) 123001: Dr Tek Chand, Ph: 221; Rohtak 124001: Dr V P Arora, Ph: 3792; Sirsa 125055: Dr J S Mann, Ph: 2007; Sonepat 131001: Dr N S Rathi, Epidemiologist, Ph: 2001.
Poul Extn Centres -- Ambala Dist -- Ambala City: Dr Surinder Kumar Khanna, Mgr, Govt Poul Farm, Ph: 57097; Jagadhri 135003: S M Madan, Asst Mgr; Naraingarh: Poul Asst; Pinjore: Grover, Poul Asst; Faridabad Dist -- Faridabad 121002: Yoginder Parshad, Poul Asst; Gurgaon Dist -- Gurgaon 122001: Rajinder Kumar, Poul Asst; Ferozepur Jhirka: Ram Phal, Poul Asst.
Chick Rearing Centres -- Gurgaon Dist -- Nuh 122107: Ram Phal; Hissar Dist -- Fatehabad 125050: Vacant.

Himachal Pradesh

Area: 55,673 sq km Population: 42,37,569

Capital: SHIMLA

Estd egg production (1984-85): 29.5 mill

Directorate of Animal Husbandry, Khalini, Shimla 171002; Ph: 3089, Gram: Himvety.
Dir: Dr V L Mehta, Ph: 3089, resi: 3561
Jt Dir (HQ): Vacant, Ph: 2298
Jt Dir (Plampur): Dr J N Batta, Ph: 98
Dep Dirs -- Mandi Region: Dr J C Kohli, Ph: 260; Shimla Region: Dr D D Ahluwalia, Ph: 5806
Poul Proj: Amar Cottage, Khalini, Shimla 171002; Proj Offr: Dr N N Wahal, Ph:3277
Epidemiologist: Dr B Singh Tomar, Ph: 3277
Offr Incharge (MFAL): Dr C L Gupta, Ph: 6319
Tech Asst: Dr A B Negi, Ph: 6749
Dist AH Offrs -- Bilaspur: Dr D V Sehgal, Ph: 94; Chamba: Dr O P Jhanga, Ph: 117; Hamirpur: Dr N S Ghezta, Ph: 104; Kangra:Dr P S Sen,Ph: 61; Kaza: Dr H N Chauhan; Kinnaur: Dr P S Dulta; Kullu: Dr J N Tandon, Ph: 89; Lahaul: Dr C R Kapoor; Mandi: Dr R P Sobti, Ph: 463; Pangi: Dr A S Khurana; Shimla: Dr R S Parmar, Ph: 2142; Sirmur: Dr R N Sharma, Ph: 103; Solan: Dr C D Panwar, Ph: 293; Una: Dr Bikram Singh, Ph: 17.
Poul Dev Offrs -- Ajoli, Una Dist: Dr S M Nayar, Ph: 653; Chauntra, Mandi Dist: Dr M S Chahal, Ph: 35; Kamlahi, Shimla Dist: Dr K L Bhanot, Ph: 2835; Nahan, Sirmur Dist: Dr R C Verma, Ph: 113; Palampur, Kangra Dist: Dr K S Kashyap.
Ranikhet Disease Eradication Scheme: Regl Poultry Farm, Kamlahi, Shimla 171004; Ph: 2835; Offr Incharge: Dr K L Bhanot.

Jammu & Kashmir

Area: 222,236 sq km Population: 4,981,600

Capital: SRINAGAR (Summer) & JAMMU (Winter)

Estd egg production (1984-85): 236 mill

JAMMU DIVISION

Animal Husbandry Department, Old Secretariat, Jammu 180001; Ph: 44552.
Dir: Dr Ghulam Mohi-ud-Din, Ph: 44552, resi: 5403
Jt Dir, Poul-cum-Livestock Production: Dr J L Tiku, Ph: 43868
Dep Dir, Poul Dev: Dr M R Gupta, Ph: 44552
Tech Asst to Dir: Dr R K Gupta
Poul Geneticist: Dr Y P Maini
Poul Nutritionist: Dr N D Gupta
Mgr, Poul Production: Dr B L Sharma
Poul Dev Offrs -- Doda: Dr Abdul Latif; Jammu: Dr J P Bhat; Kathua: Dr V P Sharma; Poonch: Dr P L Tandon; Rajouri:

Dr Netar Singh; Udhampur: Dr Fojwant Singh.

Poul Demonstration Farms & Extn Centres -- Doda: Banihal, Bhaderwah, Kishtwar, Ramban; Jammu: Dansal, R S Pura, Vijaypur; Kathua: Bani, Basoli, Billawar, Hiranagar; Poonch: Mendhar, Poonch; Rajouri: Rajouri, Sunderbani; Udhampur: Chenani, Ramnagar, Reasi.

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KASHMIR DIVISION

Animal Husbandry Department, Hariparbath, Srinagar 190001; Ph: 72141.

Dir: Dr D D Sharma, Ph: 72141, resi: 73766

Jt Dir, Poul-cum-Livestock Production: Dr I S Bakshi, Ph: 72955, resi: 75901

Dep Dir (Poul): Dr A U Shah, Ph: 77792

Tech Asst (Poul): Dr G R Mir, Ph: 77792

Tech Asst to Jt Dir: Dr J L Matto, Ph:72955

Poul Geneticist: Dr B L Negri, Ph: 72955

Mgr, Poul Production: Dr H U Jallu, Ph: 72955

Poul Nutritionist: Dr A M Qazi

Poul Proj Offr: Dr Khursheed Ahmed, Mattan-Kashmir, Ph: 30

Poul Dev Offrs — Anantnag: Dr P L Fotedar; Badgam: Dr A M Khan; Baramulla: Dr K K Koul, Ph: 238; Kupwara: Dr B L Bhat; Phulwama: Dr G A Sofi; Srinagar: Dr M S Makdoomi, Ph: 73111.

Poul Extension Centres: Anantnag, Athwajan, Awantipora, Badgam, Baramulla, Ganderbal, Handwara, Kakpora, Kulgam, Mattan, Phulwama, Srinagar, Tral, Trehgam, Umberhair, Wadoora (Sopore).

Karnataka

Area: 1,91,773 sq km Population:2,92,99,014

Capital: BANGALORE

Estd egg production (1984-85): 880 mill

Department of Animal Husbandry & Veterinary Services, 2nd Floor, Multistoryed Bldg, Dr B R Ambedkar Rd, Bangalore 560001; Ph: 27431, Gram: Veterinary.

Dir: Dr (Capt) H B Shetty, Ph: 27431

Addl Dir: Dr H T Venkatashetty, Ph: 74331

Jt Dir (Livestock): Dr V V Adkoli, Ph: 28643

Jt Dir (Anim Health): Dr H R Kantha Raj, Ph: 72882

Dep Dir (Poul): Dr A Kumaraswamy, Ph:72882

Jt Dirs -- Bangalore: Dr H T Venkatashetty, Ph: 74331; Belgaum: Dr M S Ramathirth Mutt, Ph: 21722; Gulbarga: Dr B R Tengali, Ph: 491; Mysore: Dr H Ramananda Shetty, Ph: 23087.

Regional Dep Dirs -- Bangalore: Dr B K Mohandas, Ph: 74331; Belgaum: Dr H M Billalli, Ph: 21722; Gulbarga: Dr C L Jayadeva, Ph: 491; Mysore: Dr N G Achuta Rao, Ph: 23087.

Sr Asst Dirs -- Bangalore: Dr B R Chandrappa, Ph: 600985; Belgaum: Dr S N Vaidya, Ph: 24668; Bellary: Dr S M Loknath, Ph: 3150; Bidar: Dr Madhukar Madyalkar, Ph: 392; Bijapur: Dr N M Kulkarni, Ph: 1028; Chickmagalur: Dr S P Paraswanathaiah, Ph: 8927; Chitradurga: Dr P Basappa, Ph: 2719; Dakshina Kannada: Dr M Devappa Naik, Ph: 22020; Dharwad: Dr Y H Dhunda Reddy, Ph: 8743; Gulbarga: Dr Gadagappa Kadadi, Ph: 1357; Hassan: Dr M A Nanjappa, Ph: 8033; Karwar: Dr R R Kamath, Ph: 467; Kodagu: Dr M Y Nagoji Rao, Ph: 339; Kolar: Dr K V Gangi Reddy, Ph: 297; Mandya: Dr Abdul Khalam Ahamed, Ph: 461; Mysore: Dr H M Muthanna, Ph: 23087; Raichur: Dr Balvant Joshi, Ph: 8520; Shimoga: Dr R Mahadevappa, Ph: 2676; Tumkur: Dr T S Krishnamurthy, Ph: 8616.

Applied Nutrition Programme: Proj Offr: Dr B C Bommalingaiah, Ph: 72882; Vet Asst Surgeon (ANP): Dr B Jaikumar, Ph: 72882.

Poul Extension Centres -- Asst Dirs — Belgaum: Dr C H Sangolli, Ph: 22802; Chickmagalur: Dr R S Anantharajaiah; Coondapur: Dr B Zamir Ahmed; Hassan: Dr M Mudalagiri Gowda; Holenarasipur: Dr K Nagaraj Shetty; Kumta: Dr M M Naik; Kurikuppi: Dr Shivajirao Gaikwad; Ponnampet: Dr P C Machaiah; Raichur: Dr M Ahamed Ali; Ramanagaram: Dr V R Hemasingh; Shimoga: Dr K P Joshi, Ph: 2662; T Narasipur: Dr G V Vishwanath Sharma; Tumkur: Dr Rajashekaraiah, Ph: 8619.

Intensive Poul Dev Projects — Proj Offrs — Bangalore: Dr N S Govindarajulu Setty, Ph: 32684; Dr N Venugopal Reddy; Belgaum: Dr C H Sangolli; Dharwad: Dr C B Meti; Gulbarga: Dr K Jaganatha Shetty; Mysore: Dr K Puttaswamy.

Livestock Production Programme — Proj Offrs -- Bangalore: Dr P Nandagopal, Ph: 72767; Bidar: Dr Narayana Rao Yergolkar; Dharwad: Dr Y H Dhundareddy, Ph: 8743; Mysore: Dr L Shantha Kumar, Ph: 23087.

Quality Control (Poul Feeds), Bangalore;

Ph: 72882; Tech Asst to Licencing Authority: Dr G V Srikantha Rao; Vet Asst Surgeons: Dr P Krishnappa, Dr Abdul Gani.

Kerala

Area: 38,864 sq km Population: 25,403,217

Capital: TRIVANDRUM

Estd egg production (1984-85): 1,316 mill

Directorate of Animal Husbandry, Vikas Bhawan, PB No 5405, Trivandrum 695033; Ph: 62283, 62683, 60683, Gram: Kerala-vet.
Dir: Dr P C Ramakrishnan Nambiar, Ph: 62283, resi: 65744
Addl Dir (Anim Health): Dr K Tharanath, Ph: 62683
Addl Dir (SLPP): Dr N Kesavan Nair, Ph: 66610, resi: 74651
Jt Dir (Poul): Dr K I Zachariah, Ph: 60683
Jt Dir (AH): Dr P Natarajan, Ph: 60683
Jt Dir (Livestock Production): Dr N Sasidharan, Ph: 62683
Jt Dir (SLPP): Dr A Vaidhyanatha Iyer, Ph: 66610
Dep Dir (Poul): T Samuel Johnson, Ph: 60683
DRDA, Trivandrum, Dep Dir: Dr P Gopikuttan Nair, Ph: 71136
Intensive Poul Dev Projs -- Muvattupuzha 686661, Ernamulam Dist: Proj Offr: Dr G Madhavan Nair, Ph: 390; Trivandrum 695033, Pettah Dist: Proj Offr: Dr K Viswanathan Thampi, Ph: 71473.

Lakshadweep

Area: 32 sq km Population: 40,249

Capital: KAVARATTI

Estd egg production (1984-85): 1.25 mill

Department of Animal Husbandry, Kavaratti 673555.
Asst Dir (AH): Dr P O Joseph, Ph: 368, resi: 293.

Madhya Pradesh

Area: 443,456 sq km Population: 52,131,717

Capital: BHOPAL

Estd egg production (1984-85): 700 mill

Directorate of Veterinary Services, Tulsi Nagar, Bhopal 462005; Ph: 61152, Gram: Pashudhan.
Dir: Dr P R Sharma, Ph: 61680, resi: 61007
Addl Dir: Dr B A Venkataramu, Ph: 61757, resi: 61540
Jt Dirs: Dr A P Shukla, Ph resi: 62229; Dr B K Mukherjee, Ph: 61882, resi: 63017; Dr M M Tatte, Ph: 61778, resi: 62412; Dr S N Banerjee, Ph: 61028, resi: 62771.
Dep Dirs: Dr B K Jain, Ph: 61778; Dr D K Chakraborty, Ph: 61152, resi: 61938; Dr L P Tiwari, Ph: 66002, resi: 61297; Dr P N Bhatnagar, Dr P T Pathak.
Poul Dev Offr: Dr S S Verma, 91/18 Tulsi Nagar, Bhopal 462005; Ph: 61152.
Asst Dirs: Dr D D Gadgil; Dr K A Khan; Dr V K Harure; Dr S N Nigam; Dr Abbas Hussain; Dr S K Soni; Dr S M Tatte; Dr D S Katare; Dr M N Buldeo; Dr A N Gajraj (Feed Analysis Lab).
Poul Research — Dep Dir: Dr J D Deshmukh, Ph: 61785; Asst Dirs: Dr M V Rodhey, Dr Thomas Panickar, Dr P D Soni.
Intensive Poul Dev Projects -- Baihar: Dr G P Thakre; Bhopal: Dr S D Garg, Ph: 64812; Bilaspur: Dr Pille; Gwalior: Dr G D Kakkad, Ph: 22046; Indore: Dr L B Shrivastava, Ph: 39504; Jabalpur: Dr B C Katole; Jhabua: Dr Joshi; Raipur: Dr J S Masne, Ph: 23142; Sagar: Dr L L Tamrakar; Satna: Dr Mrigendra Singh.
Special Livestock Development Projects -- Durg (Ph: 31); Jabalpur (Ph: 20141); Khandwa (Ph: 2136); Raisen (Ph: 31); Sagar (Ph: 2805); Seoni (Ph: 485); Ujjain (Ph: 5181).
Dist Vet Offrs -- Ambikapur: Dr M H Khan; Balaghat: Dr V K Dubey; Betul: Dr V C Verma; Bhind: Dr H P Soni; Bhopal: Dr S N Shrivastava; Bilaspur: Vacant; Chatterpur: Dr R B Shrivastava; Chindwara: Dr C M Sahare; Damoh: Vacant; Datia: Dr S K Sood; Dewas: Dr M V Bhale; Dhar: Dr W R Kharche; Durg: Dr Chickhlikar; Guna: Dr S R Yadav; Gwalior: Dr U C Shukla; Hoshangabad: Dr J L Verma;

Indore: Dr M S Pandit; Jabalpur: Dr M P Choubey; Jagdalpur: Vacant; Jhabua: Dr M N Siddique; Khandwa: Dr P P Dhabherey; Khargone: Dr P S Jhat; Mandla: Dr P N Dubey; Mandsour: Dr L N Lal; Morena: Dr S P Singh; Narsinghpur: Dr P K Khare; Panna: Dr Shrikant Nigam; Raigarh: Dr S C Suri; Raipur: Dr D G Sutone; Raisen: Dr R K Gorakh; Rajgarh: Dr R A Pattan; Rajnandgaon: Dr P E Salpekar; Ratlam: Dr H J Vyahare; Rewa: Dr M P S Parihar; Sagar: Dr B S Shrivastava; Satna: Dr R N Singh; Sehore: Dr Gopal Das; Seoni: Dr S K Shrivastava; Shahdol: Dr S S Gaharwar; Shajapur: Dr S K Gondal; Shivpuri: Dr M S Sangar; Sidhi: Dr Y S Chouhan; Tikamgarh: Dr R B Lal Shrivastava; Ujjain: Dr V S Patil; Vidisha: Dr J A Qureshi.

Dist Offrs — DDVS — Ambikapur: Dr R R Chourasia; Balaghat: Dr Kori; Bhind: Dr J P Tiwari; Bhopal: Dr Kachwaha; Bilaspur: Dr Bhadra; Chatterpur: Dr K L Soni; Chindwara: Dr D N Shrivastava; Damoh: Dr A N Kheri; Dewas: Dr O P Narang; Dhar: Dr Dariyani; Durg: Dr S L Rahangdale; Guna: Dr C N Rastogi; Hoshingabad: Dr D P Khamparia; Indore: Dr Mazoomdar; Jabalpur: Dr Arsia; Jhabua: Dr G P Sharma; Khandwa: Dr R P Dubey; Mandla: Dr Chandravanshi; Morena: Dr S P Singh; Narsinghpur: Dr K P Kothari; Raigarh: Dr Vaidhiya; Raipur: Dr S P Sharma; Rajgarh: Dr R N Saxena; Ratlam: Dr T P Agnihotri; Rewa: Dr B B L Verma; Sagar: Dr Deshmukh; Seoni: Dr R P Shrivastava; Shahdol: Dr S P Khare; Sidhi: Dr K L Dang; Tikamgarh: Dr Rawat; Ujjain: Dr P K Shrivastava.

Maharashtra

Area: 307,762 sq km Population:62,693,898

Capital: BOMBAY

Estd egg production (1984-85): 1,410 mill

Directorate of Animal Husbandry, Central Bldg, Pune 411001; Ph: 62381, 62382, Gram: Veterinary.

Dir: Dr P D Mokasdar, Ph: 63843, resi: 64331

Dep Dir (Poul): Dr N R Kyadiguppi, Ph: 62381, 62382

Asst Dir (Poul): Dr R D Kulkarni

Regional Jt Dirs -- Amravati 444601: Dr C M Sastakar, Ph: 5136; Aurangabad 431001: Dr K L Kulkarni, Ph: 3192, 4953; Bombay 400080: Dr S V Pargaonkar, Ph: 5601809; Nagpur 440001: Dr M A Babras, Ph: 31983, 26437; Nashik 422001: Dr P G Sohoni, Ph: 73541, 77015; Pune 411001: Dr P C Muley, Ph: 56740.

Dist Dep Dirs (AH) — Ahmednagar: Dr D B Kulkarni, Ph: 3617, 965, 157; Akola: Dr P D Agnihotri, Ph: 4954; Amravati: Dr C M Sastakar, Ph: 4526, 5136; Aurangabad: Dr M S Surndkar, Ph: 3192, 4953; Beed: Dr M A Hadi, Ph: 13; Bhandara: Dr M V Nisal, Ph: 413; Buldhana: Dr H M Sawarkar, Ph: 306; Chandrapur: Dr M G Nakade, Ph: 3320; Dhule: Dr J L Mahajan, Ph: 652; Gadchiroli: Dr M R Andhare, Ph: 161; Jalgaon: Dr S P Deshpande, Ph: 348, 5550; Jalna: Dr M J Deshmukh, Ph: 3106; Kolhapur: Dr S D Sapre, Ph: 26543; Latur: Dr M G Sabnis, Ph: 2834; Nagpur: Dr P N Sagdeo, Ph: 23074; Nanded: Dr M S Deshmukh, Ph: 3106; Nashik: Dr P G Sohoni, Ph: 73541, 77015; Osmanabad: Dr M H Kulkarni, Ph: 205; Parbhani: Dr R S Deshpande, Ph: 388; Pune: Dr S H Deshpande, Ph: 59312; Raigad (HQ at Pen): Dr P N Khapre; Ratnagiri (HQ at Chiplun): Dr R B Namdas, Ph: 107; Sangli: Dr K N Kulkarni, Ph: 2233 (Miraj); Satara: Dr M M Sathe, Ph: 2329; Sindhudurg (HQ at Kanakavati): Dr L N Kulkarni, Ph: 194; Solapur: Dr A B Joshi, Ph: 2128; Thane (HQ at Mulund, Bombay): Dr V D Hinlgol, Ph: 5601809; Wardha: Dr R G Radke, Ph: 2312; Yawatmal: Dr M D Pande, Ph: 2233.

Dist AH Offrs — Ahmednagar: Dr B D Unhate, Ph: 3696; Akola: Dr M G Bhandakkar, Ph: 2165; Amravati: Dr P G Deshmukh, Ph: 4066; Aurangabad: Dr R A Deshpande, Ph: 3371; Beed: Dr A V Joshi, Ph: 392; Bhandara: Dr S D Amin, Ph: 312; Bombay (Suburban area): Dr R P Nene, Ph: 685103; Buldhana: Dr S S Bhagade, Ph: 138; Chandrapur: Dr V D Dongaonkar, Ph: 2240; Dhule: Dr S C Patil, Ph: 514; Gadchiroli: Dr S A Panditrao, Ph: 161; Jalgaon: Dr P B Chinchalker, Ph: 3889; Jalna: Dr S V Puranik, Ph: 2329; Kolhapur: Dr M T Welhar, Ph: 25045; Latur: Dr S G Kadam, Ph: 2834; Nagpur: Dr N S Doye, Ph: 26508/25; Nanded: Dr S H Hayatnagarker, Ph: 3232; Nashik: Dr A V Phadke, Ph: 2648; Osmanabad: Dr S N Choudhari, Ph: 318; Parbhani: Dr N L Pawar, Ph: 163; Pune: Dr L S Wani, Ph: 20799; Raigad (HQ at Alibag): Dr V B

Panse, Ph: 48; Ratnagiri: Dr S R Deshpande, Ph: 2298; Sangli: Dr P V Kulkarni, Ph: 2711; Satara: Dr B B Shinde, Ph: 2861; Sindhudurg (HQ at Kanakavati): Dr R G Shirodker, Ph: 194; Solapur: Dr B P Kulkarni, Ph: 3593; Thane: Dr D M Khare, Ph: 591192, 508151; Wardha: Dr K B Kesale, Ph: 2308; Yawatmal: Dr P H Kadam, Ph: 2203.

Asst Dirs of AH (Poul Projs) — Ahmednagar: Dr T P Mali, Ph: 157; Akola: Dr P V Gangakhedkar, Ph: 2165; Amravati: Dr R T Kela, Ph: 3308; Ardhapur (Nanded): Dr S V Ringe, Ph: 2207; Beed: Dr D D Kale, Ph: 13; Chiplun (Ratnagiri): Dr G K Shinde, Ph: 132; Nashik: Dr H B Patil, Ph: 88136; Osmanabad: Dr G H Kulkarni, Ph: 205; Palghar (Thane): Dr P K Sane; Parbhani: Dr B B Tehra, Ph: 388; Pen: Dr D G Dixit; Satara: Dr D B Kulkarni, Ph: 2329; Solapur: Dr M A Naikwadi, Ph: 3096; Tasgaon (Sangli): Dr P H Kulkarni, Ph: 10 (PCO); Yawatmal: Dr P S Kulkarni, Ph: 388.

Intensive Poultry Development Blocks — Amraoti Region: Akola, Amraoti, Yeotmal; Aurangabad Region: Beed, Nanded, Osmanabad, Parbhani; Bombay Region: Chiplun (Ratnagiri Dist), Palghar (Thane Dist), Pen (Raigad Dist); Nashik Region: Kopargaon (Ahmednagar Dist), Nashik; Pune Region: Satara, Solapur, Tasgaon (Sangli Dist).

Manipur

Area: 22,356 sq km Population: 1,464,000

Capital: IMPHAL

Estd egg production (1984-85): 39 mill

Directorate of Veterinary & Animal Husbandry, Near Sanjenthong, Imphal 795001; Ph: 254, Gram: Vetmanipur.

Dir: Dr N Tombi Singh, Ph: 254, resi: LP 224

Jt Dir: Dr D Vaiphei, Ph: 1521

Dep Dir (Hills/Poul): Dr K Hilkham, Ph: 1150, resi: LP 451

Dep Dir (Planning): Dr H Bigyananda Singh, Ph: 1507, resi: 395

Poul Dev Offrs — Churachandpur: Dist Farm; Dr M Amu Singh; Mantripukhri: Central Poul Farm; Dr Ch Birendrakumar Singh, Ph: 97, resi: 1485; Tamenglong: Dist Farm; Dr S Babutombi Sharma; Thenguchingjin: Duck Farm; Dr N Packchao Singh; Ukhrul: Dist Farm; Dr Kh Ranjit Singh.

Dist Vet Offrs — Manipur Central: Regional Broiler Production-cum-Demonstration Sub-station (Under NEC), Porompat, Imphal; Ph: 817; Dr S Joykumar Singh; Manipur North: Senapati Dist Poul Farm, Kangpokpi; Dr H Phunindro Singh; Bishnupur Dist: Dr S Indu Singh; Chandel Dist: Chandel Dist Poul Farm, Uchandpokpi; Dr Y Homendro Singh.

Meghalaya

Area: 22,489 sq km Population: 1,011,699

Capital: SHILLONG

Estd egg production (1984-85): 40 mill

Directorate of Animal Husbandry & Veterinary Dept, Addl Bldg, Civil Secretariat, Shillong 793001; Ph: PBX 4201, Gram: Meghvet.

Dir: J M Thangkhiew, Ph: 4201 Ext 320, resi: 6033

Poul Dev Offr: Dr W Dhar, Ph: 265

Asst Proj Offr (Poul), Jowai: Dr G C Saikia

Head, Statistics Cell: T Marbaniang, Ph: 265

Special AH Programme, Offr Incharge: Dr A A Hazarika, Ph: 3588

Dist AH Offices — Garo Hills: Tura; Ph: 48, Gram: Disvet; Offr: Dr B K Marak; Jaintia Hills: Jowai; Ph: 311, Gram: Disvet; Offr: Dr B Suphai; Khasi Hills: Shillong; Ph: 4724, Gram: Disvet; Offr: Dr W Bathew; West Khasi Hills: Nongstoin 793119; Ph: 27; Offr: Dr H N Challeng; Williamnagar: Ph: 36; Offr: Dr S B Das.

Mizoram

Area: 21,087 sq km Population: 487,774

Capital: AIZAWL

Estd egg production (1984-85): 8.5 mill

Directorate of AH & Veterinary, Aizawl

796001; Ph: 451, Gram: Veterinary.
Dir: Dr R Kaputhama, Ph: 451, resi: 468
Jt Dir: Dr Zokhuma, Ph: 788
Dep Dir: Dr R Zolawma
Asst Dir: Dr P C Chetia
Gen Mgr: Dr C Lianmawia (Selesih)
Information Offr: Dr L Siamliana
Disease Investigation Offr: Dr L S Hrahsel
Dist Vet Offrs -- Aizawl: Dr Thanzuala; Lunglei: Dr V Liansanga; Saiha: Dr Lalhnuna.
Proj Offr, Thenzawl: Dr B C Thanthuama
Asst Disease Investigation Offr: Dr B S Prasad
Sub Divl Vet Offrs: Dr Saingura Sailo, Dr Biakmawia.

Nagaland

Area: 16,527 sq km Population: 773,281

Capital: KOHIMA

Estd egg production (1984-85): 18 mill

Directorate of Veterinary & Animal Husbandry, Kohima 797001; Ph: 494, Gram: Veterinary.
Dir: Dr S Sekhose, Ph: 780, resi: 783
Addl Dir: Dr A Rongsen Ao, Ph: 704, resi: 576
Dep Dir (Mktg & Dev): Dr T Odyuo Lotha, Ph: 484, resi: 2212
Dep Dir (SLPP): Dr R D N Singh
Asst Dir (Poul): Dr M M Thomas
Dist Vet Offrs -- Kohima: Dr Josef Kepan; Mokokchung: Dr Tajen Aier; Tuensang: Dr Moaliba.
Intensive Poul Dev Proj, Kohima 797001; Ph: 768
Asst Dir (Disease Investigation), Dimapur: Dr S Kemp.

Orissa

Area: 155,782 sq km Population:26,272,054

Capital: BHUBANESWAR

Estd egg production (1984-85): 373 mill

Directorate of Animal Husbandry, Dairy & Veterinary Services, PB No 44, Cuttack 753001, Ph: 22296, Gram: Veterinary.
Dir: Dr J N Mohanty, Ph: 21929
Dir (Tech): Dr Srinath Tarenia, Ph: 21939, resi: 21578
Jt Dir (Extn): Dr N R Mishra, Ph: 24317, resi: 23455
Dep Dir (AC): Dr P Y Harichandar, Ph: 23701
Dep Dir (AN): Dr G P Mohanty, Ph: 22296, resi: 22648
Dep Dir (Poul): Dr G P Mohanty (Incharge)
Vet Information Offr: Dr Satrughana Mishra
Cost Accountant: B Panda
Dep Dir (DC) & Incharge, Statistician: Dr M M Patnaik
Chief Dist Vet Offrs (CDVO) -- Balasore: Dr S K Ray (I/c), Ph: 219; Bolangir: Dr B N Sarangi, Ph: 141; Cuttack: Dr Dinabandhu Mishra, Ph: 22955, resi: 21778; Dhenkanal: Dr B Sahu, Ph: 65; Ganjam: PO Berhampur; Dr R C Das, Ph: 2397, resi: 3380; Kalahandi: At & PO: Bhawanipatana: Dr Barun Behera, Ph: 59; Keonjhar: Dr S K Bose, Ph: 4; Koraput: Dr B R Sarkhel, Ph: 19; Mayurbhanj: PO Baripada: Ph: 128; Phulbani: Dr Agani Behera, Ph: 31; Puri: Dr P K Patnaik, Ph: 9; Sambalpur: Dr A R Gupta, Ph: 372; Sundargarh: Dr J N Biswal, Ph: 9.
Spl Poul Prod Programme -- Proj Offrs -- Cuttack: At Chhatrabazar, -753008; Dr A B Mishra, Ph: 21475; Puri: Dr P K Patnaik (I/c), Ph: 473; Sambalpur: Dr L N Baboo, Ph: 160.
Intensive Poul Dev Projects -- Berhampur 760001: Proj Offr: Dr J Sahoo, Ph: 3796; Bhubaneswar 751006: Proj Offr: Dr P K Mohanty, Ph: 51042; Rourkella 769001: Proj Offr: Dr R C Padhi.

Pondicherry

Area: 480 sq km Population: 470,771

Estd egg production (1984-85): 8.5 mill

Directorate of Animal Husbandry, Pondicherry 605001; Ph: 4228.
Dir: Dr K Raghunathan, Ph: 4228, resi: 6196
Dep Dir (Poul): Dr Alfred Gnanou, Ph: 4228, resi: 3933
Special AH Programme, Proj Offr: Dr Ernest Joseph Raymond, Ph: 6336
Dep Dir (Regl), Karaikal: Dr Dominic Savio Jegam, Ph: 221
Dep Dir (Eco & Statistics): A R Albert
Intensive Poul Dev Proj-cum-Mktg Fedn Incharge: Dr K Suryanarayana.

Punjab

Area: 50,362 sq km Population: 16,679,755

Capital: CHANDIGARH

Estd egg production (1984-85): 825 mill

Animal Husbandry Department, SCO No 6/7, Vinod Bldg, Sector 17-B, Chandigarh 160017; Ph: 24409, Gram: Husbandry.
Dir: Dr R S Grewal, Ph: 24409, resi: 25084
Jt Dir (Feed & Fodder): Makhan Singh, Ph: 21797
Dep Dir (Poul Dev): Dr Harjit Singh, Ph: 28509
Dep Dir (MFALA): Vacant
Dep Dir (AH): Dr A S Narula, Ph: 31174
Dep Dir (AP): Dr Amrik Singh, Ph: 21368
Dep Dir (Statistics): Sudarshan Kumar, Ph: 28509
Asst Dir (Poul Trg): Dr Pratipal Singh, Ph: 28509
Asst Dirs (Poul Dev) -- Gurdaspur: Dr Raminder Singh Sodhi, Ph: 377; Jalandhar: Dr Mohan Singh, Ph: 77377 PP; Kotkapura: Dr Kaur Singh; Patiala: Harbhajan Singh Rai, Ph: 74116.
Poul Pathologist: Vacant
Poul Nutritionist: Vacant
Poul Geneticist: Vacant
Dep Dirs (AH) -- Amritsar: Harbhajan Singh, Ph: 41961; Bhatinda: Vacant, Ph: 2906; Faridkot: Dr Gurbachan Singh Sohi, Ph: 676; Ferozepur: Vacant, Ph: 2841; Gurdaspur: Dr Narinder Singh Grewal, Ph: 377; Hoshiarpur: Dr Dharampal Sharma, Ph: 2774; Jalandhar: Dr Madan Lal Kaushal, Ph: 77337; Ludhiana: Dr Lachhman Singh, Ph: 21095; Patiala: Dr Jagmohan Singh, Ph: 74130; Sangrur: Dr Sukhdarshan Singh Grewal, Ph: 293.
Asst Dirs (AH) -- Amritsar: Shanti Lal, Ph: 41961; Bhatinda: Dr Sudhir Kumar Arora, Ph: 2906; Faridkot: Bachitor Singh, Ph: 676; Ferozepur: Dr O P Monga, Ph: 2841; Gurdaspur: Dr K K Bhalla, Ph: 337; Hoshiarpur: Dr P C Sofet, Ph: 2774; Jalandhar: Dr Mal Singh Bedi, Ph: 77337; Kapurthala: Dr Baldev Singh, Ph: 2707; Ludhiana: Dr Harprem Singh Gill, Ph: 21905; Patiala: Dr Mohinder Singh, Ph: 74130; Ropar: Dr Dev Singh, Ph: 337; Sangrur: Dr Onkar Singh Kalra, Ph: 293.

Rajasthan

Area: 342,214 sq km Population: 34,108,000

Capital: JAIPUR

Estd egg production (1984-85): 160 mill

Department of Animal Husbandry, Saras Sankul, Malviya Nagar Rd, Jaipur 302017; Ph: 74291, Gram: Veterinary.
Dir: P C Singhi, IAS, Ph: 74291, resi: 63039, 62831
Jt Dir (Admn): Dr D S Bhandari, Ph: 77984, resi: 46847
Jt Dir (Proj): Dr R R Kalla, Ph: 77984, resi: 60013
Jt Dir (BP Lab): Dr V R Ambwani, Ph: 62171, resi: 77204
Dep Dir (PL): Dr D P Singh
Dep Dir (Poul): Dr P S Mandawat, Ph: 63548
Dep Dirs (Range) -- Bikaner: Dr Somnath Thaper; Jaipur: Dr B L Midda, Ph: 64230; Jodhpur: Dr M L S Rai; Kota: Dr H K Sharma, Ph: 4156 PP.
Dep Dir (Tribal), Udaipur: Dr R C Batta, Ph: 4806, resi: 6089
Dep Dir (Key Vill): Dr M K Bhattacharya, Ph: 69283, resi: 78900
Dep Dir (Epidemology): Dr K N Purohit
Pathoolgist (LFIS), Bassi: Dr A K Purohit, Ph: 27
Nutritionist (LFIS): Dr S R Maheshwari, Ph: 27
Geneticist (LFIS): Dr P S Malik, Ph: 27
Proj Offr (Pilot Poul Prcj), Jaipur: Dr D S Malik
Asst Dir (PL): Dr K C Kaushik
Proj Offr (Poul & Prod Programme), Ajmer: Dr S Ranjan
Asst Dir (Statistics): P N Tiwari
Dist AH Offrs -- Ajmer 305001: Dr A A Beg, Ph: 21640; Alwar 301001: Dr C B Raodeo, Ph: 2341; Annopgarh 335701: Dr H B Lal Bajaj; Banswara 327001: Dr S C Saxena; Barmer 344001: Dr R R Kulkarni, Ph: 284; Bharatpur 321001: Dr K B Shrivastava; Bhilwara 311001: Dr B B Prasad, Ph:244; Bikaner 334001: Dr R S Karwasra; Bundi 323001: Dr J S Saxena; Chittorgarh 312001: Dr S K Rao, Ph: 408; Churu 331001: Dr Mohan Singh; Dausa 303303: Dr S M Saxena; Dholpur 328001: Dr R S Sishodia; Dungarpur 314001: Dr S C Ghosh, Ph: 356; Ganganagar: M M Lal

Sharma; Jaipur 302001: Dr A P Gupta, Ph: 64230; Jaisalmer 345001: Dr K C Joshi; Jalore 343001: Dr R C Mathur; Jhalawar 326001: Dr P P Mathur; Jhunjhunu 333001: Dr P C Mohta; Jodhpur 342001: Dr J Lal Mathur, Ph: 20248; Kota 324001: Dr S C Madan, Ph: 4156; Nagaur 341001: Dr P V Bhargava, Ph: 351; Pali 306401: Dr Mohd Iqbal, Ph: 7227; Rajsamand 313326: Dr M D Bohra; S Madhopur 322001: Dr Y V Satyanarain; Sikar 332001: Dr A K Joshi, Ph: 109 PP; Sirohi 307001: Dr Banraj Joshi, Ph: 161; Tonk 304001: Dr Abhey Singh; Udaipur 313001: Dr K B Shara, Ph: 3408.

Asst Dir (Poul), Jaipur: Dr G K Rastogi, Ph: 63548.

Asst Poul Dev Offr, Jaipur: Dr A K Saxena, Ph: 63548.

Field Extn Offr, Jaipur: Dr P R Mehta, Ph: 77984 PP.

Extension Offr (Exhibition), Jaipur: Dr S D Pandit, Ph: 77984 PP.

Intensive Poul Dev Prcj — Prcj Offr — Ajmer: Dr Anand Sagar, Ph: 21923; Alwar: Dr D Prasad, Ph: 3446; Banswara: Dr Shyam Murari; Bhilwara: Dr Arun K Basu; Dungarpur: Dr Sheikh Abdul Rasid; Jaipur: Dr C C Sharma.

Asst Proj Offrs — Ajmer: Dr M M Mathur, Ph: 21993; Jaipur: Dr G L Dhabai; Jodhpur: Dr Ramesh Chandra B Mathur; Kota: Dr Chandra Kant Joshi, Ph: 21241; Udaipur: Dr P D Biswas, Dr A Joshi, Ph:5601.

Sikkim

Area:7,096 sq km Population: 316,385

Capital: GANGTOK

Estd egg production (1984-85): 4.3 mill

Department of Animal Husbandry, Gangtok 737101; Ph: 2504.

Dir: Dr B S Basnet

Addl Dir: Dr N T Lepcha

Jt Dir (AH): S Paljor

Jt Dir (VS): Dr N D Lama

Dep Dir (Res): Dr D N Bhutia, Ph: 2921, resi: 2905

Sr Scientist (Poul): Dr Jairam Prasad, Ph: 2921

Farm Mgr (Poul): M Bettiah, Ph: 2905

Poul Dev Offr: Kunwar

Vet Offr: Dr R T Singh, Ph: 2921

Tamil Nadu

Area: 30,069 sq km Population: 48,297,456

Capital: MADRAS

Estd egg production((1984-85): 1,100 mill

Animal Husbandry Department, Central Office Bldgs (Block II), Cathedral Post, Madras 600006; Ph: 450170.

Dir: Dr S Rangaraj, Ph: 454214, resi:611639

Addl Dir (Plg & Admn): Dr A Balaguru,Ph Ext:

Addl Dir (SAHP): D S Sethuraman, Ph Ext: 55

Addl Dir, Dist Livestock Farm, Pudukottai: Dr C K Kalyanasundaram

Jt Dir (Prcpaganda & Publicity): Dr M S Mani

Jt Dir (Planning): Dr S P Anbumani

Jt Dir (Statistics): Dr T K Govindarajan

Regional Jt Dirs — Coimbatore: Dr M Ramakrishna Singh; Cuddalore: Dr R N Raman; Ramanathapuram: Dr A Ramasamy; Salem: Dr K Venkatarajlu; Thanjavur: Dr R Santhana Krishnan; Tirunelveli: Dr R Natarajan; Trichy: Dr M Jayaseelan; Vellore: Dr S Narayanan.

Dep Dir, Anim Disease Surveillance: Dr V S Gajapathy.

Dep Dir (Sample Survey): Dr D Balasubramanian.

Dep Dir, Nagercoil: Dr M Kesavan.

Dep Dirs — Dist Livestock Farm — Hosur: Dr R Govindarajan; Korukkai: Dr S Kandasamy.

Dep Dirs — Key Vill Centres — Dindigul: Dr Syed Mustak Hussain; Pudukottai: Dr L Ramachandran; Thanjavur: Dr K Selvaraj; Theni: Dr B A Rahim; Tirunelveli: Dr R Chindambaranthan; Trichy: Dr V Marimuthu

Poultry Extn Centres — Vet Asst Surgeons — Abishekapatti: Dr R Sugumar; Amaravathipudur: Dr Rajendran; Annupankulam: Dr S Ramadoss; Bhavanisagar: Dr R Rangasamy; Buvanagiri: Vacant; Chengapalli: Dr K Rangasamy; Chettinad: Dr M C Jothiraj; Chinnasalem: Dr Chengutuvan;Gandhigram: Dr Numan Thomas Jansan; Hosur: Dr Sankaran; Karuthapuliampatti: Vacant; Kattupakkam: Dr M Krishvarbanu, Dr S Lakshmanan, Dr S M Selvaraj, Dr Thamburaj Gnanakan; Kodaikanal: Vacant; Kondanagaram: Dr Rathakrishnan; Kottaram: Dr Avudaiappan; Kovilpatti: Dr P Villson; Krishnagiri: Dr A Ganesan; Masinagudi: Vacant; Orathanadu: Dr Rajasubramaniyam; Palayampatti: Dr Kandalu Ramanujam;

Pattukottai: Dr A Sundaravadivelu; Polavakalipalayam: Dr K Thiruchenkottaian; Polivakkam: Dr Rajasekarpal; Pudukottai: Dr Krishnamoorthy; S V Nagaram: Dr M Annamalai; Saidapet: Dr Pattern Jasuthasan; Sathur:Dr Rajendran; Therkkupalayam: Dr M R Thayaleesvaran; Thiruvarangulam: Dr K Ramakrishnan; Vaigaidam: Dr C Palanisamy; Veppanthattai: Dr K Nagaraj.

Tripura

Area: 10,476 sq km Population: 2,060,189

Capital: AGARTALA

Estd egg production (1984-85): 28.5 mill

Directorate of Animal Husbandry, H G Basak Rd, PO Agartala 799001; Ph: 3611, Gram: Chiefvet.
Dir: Dr D M M Swamy, Ph: 3611
Dep Dirs: Dr S C Sarkar, Ph: 3528; Dr A K Majumdar, Ph: 5161; Dr S P Debnath, Ph: 4590; Dr S Bandhopadhaya; A C Debnath, Ph: 4590.
Dist Offrs: Dr G B Choudhary, Ph: 96 KLS; Dr R C Bhattacherjee, Ph: 374 UDP; Dr S C Roy.
Asst Dir (Poul Dev): Dr B B Saha
Farm Supdt, State Poul Farm, Gandhigram: Dr Pulak Bandhupadyaya, Ph: 3773.

Uttar Pradesh

Area:2,94,413 sq km Population:110,858,019

Capital: LUCKNOW

Estd egg production (1984-85): 357 mill

Animal Husbandry Department, Gokaran Nath Rd, Badshahbagh, Lucknow 226007; Ph: 74857.
Dir: Dr D N Sood, Ph: 74857
Dep Dir (Poul): Dr S C Srivastava, Ph: 74853
Poul Dev Offr: Dr R P Agarwal, Ph: 74853
Asst Poul Dev Offr: P K Misra, Ph: 74853
Dep Dirs of AH -- Agra: Dr V R Sharma, Ph: 74488; Allahabad: Dr Rajendra Singh, Ph: 2511; Bareilly: Dr Baldev Sachdev, Ph: 73241; Faizabad: Dr A K Singh, Ph: 2389; Gorakhpur: Dr Lalji, Ph: 5240; Jhansi: Dr S M S Naqvi, Ph: 743; Lucknow: Dr S N Rai, Ph: 48308; Meerut: Dr D V S Chaudhry, Ph: 74344; Moradabad: Dr Mathan Singh, Ph: 26457; Nainital: Dr S C Joshi, Ph: 2404; Pauri: Dr S P Naithani, Ph: 80; Varanasi: Dr G N Chaurasia, Ph: 54673.
Small Farmers Dev Agency, c/o Addl Dist Magistrate (Project), (Special Livestock Production Programme, Govt of India) -- Asst Proj Offrs (AH) -- Allahabad: Dr M P Verma; Badaun: Dr R B Upadhya; Ghaziabad: Vacant; Gorakhpur: Dr Shobh Nath Singh; Hamirpur: Dr B K Misra; Jaunpur: Dr R K Rai; Kanpur: Dr V S Katiyar; Lucknow: Dr B B Goel; Mathura: Dr Ram Sewak Gupta; Meerut: Dr P K Singh; Moradabad: Dr J S Nim; Muzaffarnagar: Dr R B Upadhyay; Pratapgarh: Dr Anand Swarup Srivastava; Rae Bareilly: Dr Mahabir Singh; Varanasi: Dr R K Dube.
Dist Livestock Offrs (c/o Dist Planning Offr; Gram: Pashudhan Adhikari) -- Agra: Dr B S Ahlawat, Ph: 74009; Aligarh: Dr J L Verman, Ph: 83; Allahabad: Dr K N Dubey, Ph: 53542; Almora: Dr B D Khalbe, Ph: 2027; Azamgarh: Dr Shobhamani Tripathi, Ph: 75; Badaun: Dr M P Agarwal, Ph: 34; Bahraich: Vacant, Ph: 412; Ballia: Dr Bhola Rai, Ph: 18; Banda: Dr R S Gangwar, Ph: 10; Barabanki: Dr R K Dubey, Ph: 282; Bareilly: Dr R C Kakrania, Ph: 74292; Basti: Dr S B Lall; Bijnor: Dr Birpal Singh, Ph: 72; Bulandshahr: Dr P S Goyal, Ph: 371; Chamoli: Dr J K S Rawat, Ph: 17; Dehradun: Dr G P Pant, Ph: 27891; Deoria: Dr R P Singh, Ph: 115; Etah: Dr V S Gangwar, Ph: 30; Etawah: Dr H B Mathur, Ph: 930; Faizabad: Dr K P Tripathi, Ph: 285; Farukhabad: Dr R R Maheshwari, Ph: 238; Fatehpur: Dr D S Gangwar, Ph: 16; Ghaziabad: Dr P N Sarin, Ph: 846161; Ghazipur: Dr J P Singh, Ph: 244; Gonda: Dr M P Pande, Ph: 362; Gorakhpur: Dr R B lall; Hamirpur: Dr Ram lall, Ph: 33; Hardoi: Dr R S Srivastava, Ph: 449; Jalaun: Dr R C Chowdhary; Jaunpur: Dr O N Singh, Ph: 245; Jhansi: Dr C B Saxena, Ph: 503; Kanpur (Dehat): Dr A P Saxena, Ph: 63371; Kanpur (Nagar): Dr R K Misra, Ph: 63371; Lakhimpur Kheri: Dr C K Shukla, Ph: 2338; Lalitpur: Dr R B Kole; Lucknow: Dr R L Gupta, Ph: 43679; Mainpuri: Dr P P Dixit, Ph: 443; Mathura: Dr O P Pathak, Ph: 195; Meerut: Dr H H P Saxena, Ph: 74505; Mirzapur: Dr H P Singh, Ph: 439; Moradabad: Dr J P

Bhatnagar, Ph: 23154; Muzaffarnagar: Dr S C Arya, Ph: 169; Nainital: Dr K B Joshi, Ph: 2411; Pauri: Dr D P Dimri, Ph: 10; Pilibhit: Dr P C Diwakar, Ph: 87; Pithorgarh: Dr P Kala; Pratapgarh: Dr M M Sinha, Ph: 119; Rai Bareilly: Dr Ram Singh, Ph: 672; Rampur: Dr H C Mathur, Ph: 302; Saharanpur: Dr Ram Charan Singh, Ph: 7117; Shahjahanpur: Dr Rajesh Saxena, Ph: 2563/220; Sitapur: Dr S C Saxena, Ph: 2272; Sultanpur: Dr R P Singh, Ph: 1; Tehri: Dr J C Punera, Ph: 36; Unnao: Dr Geetam Singh, Ph: 206; Uttarkashi: Dr G D Pandey; Varanasi: Dr N N Sinha, Ph:442.

Intensive Poul Dev Projects — Proj Offrs (Poul) — Agra: Dr M C Gautam; Aligarh: Dr J P Matry; Almora: Dr T S Joshi; Bareilly: Dr S S Verma; Dehradun: Dr P K Sood; Gorakhpur: Dr Ghanshyam Kunwar; Kanpur: Dr S C Saxena; Lucknow: Dr G N Bhatt; Pauri: Dr S S Bist; Varanasi: Dr V B Srivastava.

Dist Rural Dev Agencies, c/o Addl Dist Magistrate (Projects) — Asst Proj Offrs — Bahraich: Dr A P Singh; Bareilly: Dr Brahm Dutt; Basti: Dr J B Tripathi; Ghazipur: Dr Randhir Singh; Gonda: Dr M C Gupta; Hardoi: Vacant; Lakhimpur Kheri: Vacant; Mainpuri: Dr P P Dixit; Mirzapur: Dr Virendra Singh; Pauri: Vacant; Sitapur: Dr K G Singh; Sultanpur: Dr Riyaz Ahmad; Unnao: Vacant.

West Bengal

Area: 87,853 sq km Population: 4,43,12,011

Capital: CALCUTTA

Estd egg production (1984-85): 1,518 mill

Directorate of Animal Husbandry, Writers' Bldgs, Block 'F', 4th Floor, Calcutta 700001; Ph: 255601, 253371, Gram: Anihusben.

Dir: H Guha, Ph: 255601, 253371 Ext 244

Addl Dir (SAHP): Dr S Gupta, Ph: 253371 Ext 364

Addl Dir (Hqs): Dr S K Moulik, Ph: 255601, 253371 Ext 538

Jt Dir (Poul): Dr M K Dutta, Ph: 255601, 253371 Ext 263

Jt Dir (HQ): Dr A K Acharya, Ph: 255601, 253371 Ext 461

Special Offr (AH): Capt Dr M Ahemed, Ph: 255601, 253371 Ext 461

Dep Dir (Poul): Vacant

Dep Dir (Key Vill): Vacant

Dep Dir (Statistics): T K Bagchi

Dep Dir Breeding (SAHP): Dr T K Bandopadhya

Supdt of Livestock (Poul): N Nandi, Ph: 255601, 253371 Ext 525

Supdt of Livestock (Mktg): Dr S R Das Majumdar

Supdt of Livestock (Pub): A K Paul

Supdt of Livestock (ITDP): Dr S K Bhanja

Field Offr (Statistics): Dr B Roy Chowdhury

Statistical Offrs: M K Samanta, N K Laha, P K Bhattacharya

Poul Mktg Centre: 42 Graham Rd, Tollygunge, Calcutta 700040; Ph: 465314; Dep Dir (Poul Mktg): Vacant; Poul Dev Offr: Dr J C Biswas; Spl Offr (Feed): A R Dey, Ph: 255601 Ext 525; Asst Poul Dev Offr (Trg): D Mukherjee, Ph: 465314; Spl Offr (Meat & Eggs): Dr A K Deb.

Special Animal Husbandry Programme, HQ Cell: P-83, Nani Gopal Roy Chowdhury Avenue, Calcutta 700014; Ph: 293605, 294429, Gram: Pashunagar; Dep Dir (Mktg Mgmt): Dr R C Chakraborty; Credit Planning Offr: S M Sen.

Dep Dirs — Burdwan: Dr D K Mitra, Ph: 3604; Darjeeling: Vacant, Ph: 3149; Hooghly, PO Chinsurah: R N Das, Ph: 2774 (Chinsurah); Malda: Dr B C Chatterjee, Ph: 2147; Murshidabad, PO Berhampur: S P Ghosh, Ph: 788 (Berhampore); Nadia, PO Krishnagar: R D Sen, Ph: 2725 (Krishnagar); 24-Parganas, P-83, Nani Gopal Roy Chowdhury Avenue, Calcutta 700014; West Dinajpur, PO Balurghat: Vacant, Ph: 280 (Balurghat); Dep Dir: S K Sarkar, Ph: 294429.

Intensive Poul Dev Projects — Proj Offrs — Barasat: Vacant; Calcutta: Vacant, Ph: 619-569; Chinsurah: M N Ghosh, Ph: 2737; Durgapur: Vacant; Howrah: Dr A K Chakraborty, Ph: 711101.

Addl Dir: Dr T K Roy, Haringhata Farm, Kalyani Complex, PO Mohanpur, Dist Nadia; Ph: 430, 432, 623, Gram: Harlivestock.

• • • • •

Directorate of Veterinary Services, New Secretariat Bldgs, 1 Kiron Shankar Roy Rd, Calcutta 700001; Ph: 236271.

Dir: Dr P B Kundu, Ph: 235545, resi:574383

Addl Dir: Dr A C Saha, Ph: 236271 Ext 81

Jt Dir: Dr B N De, Ph: 236271 Ext 60, resi: 575470

Dep Dir (SAHP): Dr B T Banerjee, Ph: 236271 Ext 328

HQ Supdt: Dr D Chattopadhyay, Ph: 236271 Ext: 332

Sr Vet Surgeon, Poul: Dr P G Banerjee
Sr Vet Surgeon, Publicity: Dr R C Saha
Disease Investigation-cum-Clinical Lab, Darjeeling, Res Offr: Dr J Samaddar
Statistical Offr: Vacant
Dep Dirs — Presidency Div: Administrative Bldg, PO Kalyani, Nadia Dist; Dr C R Acharya, Ph: 221 (Kalyani); Burdwan Div: Dr K Chakraborty, Ph: 2284 (Burdwan); Jalpaiguri Div: PO Siliguri, Darjeeling Dist; M B Baruilly, Ph: 223555 (Siliguri).
Dist Vet Offrs — Bankura 722101: Dr K Dutta, Ph: 282; Birbhum: PO Suri 731101; Dr D Sen, Ph: 252 (Suri); Burdwan 713101: Dr C R Banerjee, Ph: 2284; Cooch Behar 736101: Dr A Bose, Ph: 504; Darjeeling 734101: Dr P K Biswas, Ph: 2482; Dinajpur (West): PO Balurghat 733101; Dr S K Mohanti, Ph: 279 (Balurghat); Hooghly 712103: PO Chinsurah; Dr K Dutta Chowdhury, Ph: 272; Howrah 711101: 2 Joy Narayan Santra Lane; Dr M K Chakraborty, Ph: 674205; Jalpaiguri 735101: Dr A Saha, Ph: 758; Malda 732101: Dr A K Saha, Ph: 2407; Midnapore (North): Dr M Mukherjee, Ph: 586; Midnapore (South): PO Contai 721401; Dr Kripanath Sur, Ph: 141 (Contai); Murshidabad: PO Berhampore 742101; Dr S K Sen, Ph: 671 (Berhampore); Nadia: PO Krishnagar 741101; Dr O N Hazra, Ph: 374 (Krishnagar); Purulia 723101: Dr T K Poddar, Ph: 514; 24-Parganas (North): PO Barasat 743201; Dr N Chakraborty, Ph: 61-7686; 24-Parganas (South): Dr A K Roy.

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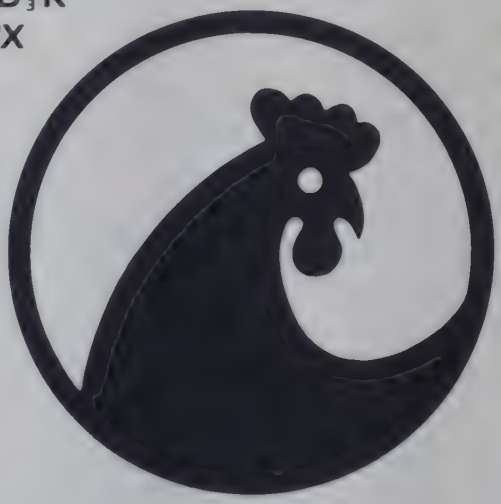
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Who's Who

A

ABRAHAM, Alexander: Vice-Pres, AFS, Lipton India Ltd; b 12 May 42. Ed: BE (Mech), 63, Madras. Add off: 10/1 Palace Rd, Bangalore 560052; resi: 75 Residency Rd, Bangalore 560025; Ph off: 71536, 73508; resi: 52813.

ABROL, Vashdev Singh: Mg Dir, Avet Chemicals Pvt Ltd; b 9 Jan 43. Ed: BVSc & AH, 64, Punjab; Dip Ext (Nilokheri), 65. Add off: 7 Green Park, Jalandhar City; resi: 143-R Model Town, Jalandhar; Ph off: 2696;resi: 2698.

ACHARYA, Dr Radha Mohan: Dep Dir-Gen (Anim Sc), ICAR; b 14 Apr 34. Ed: BVSc & AH, 56, Punjab; MS, 62, Ohio, USA; PhD, 66, Iowa, USA. Add off: Krishi Bhavan, New Delhi 110001; resi: C-II/53, Moti Bagh, Part I, New Delhi 110023; Ph off: 382545; resi: 670621.

ADHIKARI, Dr V M: Mgr, Roche Products Ltd, PB No 7901, 28 Pt M M Malaviya Rd, Bombay 400034; Ph: 4945890.

ADLAKHA, Dr Satish Chandra: Jt Commissioner (Livestock Health), Min of Agri, GOI; b 20 Nov 34. Ed: BVSc & AH, 56, Agra, MVSc (Microbiology), 61, Agra, PhD (Microbiology), 65, AIIMS. Add off: Krishi Bhavan, New Delhi 110001; resi: A-391 Defence Colony, New Delhi 110024; Ph off: 389441; resi: ~~621399.~~

AGARAM, Kandadai Govindaraj: Mgr, New India Assurance Co Ltd; b 5 Feb 32. Ed: BSc (Agri). Add off: 87 M G Rd, Bombay 400023; resi: 304, II Wallace Apartments, Sheater Rd, Bombay 400007; Ph off: 275134.

AGARWAL, B P: Partner, Crystal Corpn; b 16 Mar 38. Ed: MA, 61, Agra. Add off: New Sahastradhara Rd, Dehradun; resi: 15/1 Tyagi Rd, Dehradun; Ph off: 26623; resi: 25512.

AGARWAL, Jai Narain: Partner, Agarwal Udyog & Hensan Products; b 1 Jan 32. Add off: 522/525 Lahori Gate, Naya Bazar, Delhi 110006; resi: Honey Home, Rail Rd, Hapur

See also LATE ADDITIONS at the end of the listing

245101; Ph off: 233134, 235029; resi: 2544 (Hapur).

AGARWAL, Dr Krishna Kumar: Mgr, Tech Services, Hoechst India Ltd; b July 36. Ed: BVSc & AH, 57 Agra; Assoc, 1964, IVRI; PhD, 1968, Cambridge. Add off: PO Box 11123, Bombay 400021; resi: 20, Chhaya, LB Shastri Rd, Thane 400601; Ph off: 230607; resi: 592416.

AGARWAL, Rajeshwar Prasad: Poul Dev Offr, AH Dte, UP; b 25 July 34. Ed: BSc, 55; BVSc & AH, 59. Add off: Gokaran Nath Rd, Badshahbagh, Lucknow 226007; resi: 1/8 Kesarbag Colony, Lucknow; Ph off: 44989.

AGARWALA, O P: Prof & Head, Deptt of AH, Allahabad Agril Inst; b 25 Jan 28. Ed: BSc Agri with specialization in AH & Dairying, 49, Allahabad; MS, 57, Nebraska, USA. Add off: PO Agril Inst, Allahabad 211007; Ph off: 7286/18.

AGGARWAL, Bal Krishan: Sr Res Offr (AH), Planning Commission; b 13 Jan 32. Ed: BVSc, 56, Sagar Univ; NDAH, 70, IVRI. Add off: Agril Div, Yojana Bhavan, New Delhi 110001; resi: 2/20-B, Jangpura-A, New Delhi 110014; Ph off: 385481 Ext 407.

AGGARWAL, Dr Chander Kishore: Res Scientist, Livestock Production & Management, HAU; b 3 Nov 41. Ed: BVSc & AH, 62, Pb; MSc (Hons) Poul Sc, 66, PAU; PhD (Poul Sc), 76, Agra. Add off: Dept of Livestock Production & Management, HAU, Hissar 125004; resi: Bara Mohalla, Hissar; Ph off: 3880 Ext 231; resi: 2920 (PP).

AGGARWAL, S S: Dir, Induss Feeds. Add off: 238-B, A J C Bose Rd, Calcutta 700020; Ph off: 441962, 432576; resi: 434059.

AGNIHOTRI, B V: Mgr, Anim Health, May & Baker (India) Ltd; b 25 Sep 33. Ed: BSc (Hons), 54, Karnatak Univ. Add off: Maybaker House, Bombay 400025;resi:Pandit's Bungalow, Plot No 121, Kansai Section, Ambarnath 421501, Dist Thana; Ph off: 4934511; resi: 2246 (Ambarnath).

AGRAWAL, Sushiel Kumar: Sec-Gen, Ind Council of Indigenous Vet Med, & Mg Dir, Herbs (India) Pvt Ltd; b 5 Mar 48. Add off: PB 5, Saharanpur 247001, UP; resi: B-84 Avas Vikas Colony, Delhi Rd, Saharanpur; Ph off: 6044, 7920; resi: 7838.

AHUJA, Dr S D: Head, Poultry Housing & Management, Central Avian Res Inst (CARI), IVRI Campus, Izatnagar 243122; Ph off: 74332, 74230, 74095, 76095 (Bareilly).

AJINKYA, Dr Sharadchandra Malhar: Prof of Eminence, Bombay Vet Coll; b 19 Sept 25. Ed: BSC (Vet) Hons, 49, Bombay; FRVS, 64, Sweden; PhD, USA. Add off: Parel, Bombay 400012; Ph off: 441180.

ALFRED JAYA PRASAD, Dr I: Prof & Head, Dept of Poul Sc, Madras Vet Coll; b 7 June 46 Ed: MVSc (Poul Sc), PhD, Tamil Nadu Agri Univ. Add off: Vepery, Madras 600007; resi: 14 Staff Qrtrs, Vet Coll Hostel, Madras 600007; Ph off: 31506 Ext 7.

ALI, Mohamed Muzamil: Poul Consultant & Farmer; b 19 Oct 39. Ed: BVSc & AH, 62, Osmania, DSWP. Add off: Poultry & Poultr PB 17, Panvel 410206, Raigad Dist, Maharashtra; resi: Block '6', Plot 203, Panv 410206; Ph off: 2716; resi: 2591.

ALLAUDIN, K, IAS: Mg Dir, Tamil Nadu Poul Dev Corpn Ltd; b 4 Mar 53. Ed: MCom, 76, Madras. Add off: 561 Anna Salai, Madras 600018; resi: P-5 Rohini Gardens, Santhome High Rd, Madras 600004; Ph off: 450560, 453164; resi: 418263.

ALVA, Premnath: Head, Credit Dept (Rural De Vijaya Bank; b 16 Jan 34. Ed: BSc (Agri) 55, Madras. Add off: Head off, 14 M G Rd Bangalore 560001; Ph off: 53341 Ext 223 resi: 51240.

ANANTHA NARAYANAN, S: Sr Asst Mgr, Agro Inputs (Feeds) Div, EID-Parry (I) Ltd; b Oct 35. Ed: BSc. Add off: Dare House, Madras 600001; resi: 21/3 Venkata Krishn Rd, Madras 600028; Ph off: 29251; resi: 71741.

ANAOKAR, Dr Sudheer Laxmanrao:Asstt Mktg Mg (AF), Godrej Soaps Pvt Ltd; b 4 Jan 43. Ed: BVSc & AH, 63, Vikram Univ; MVSc (Anim Nutrition), 65, Agra Univ; PhD, 7 Sardar Patel Univ. Add off: Pirojsha Nagar, Eastern Express Highway, Vikhroli Bombay 400079; resi: SP/C-1/9, Godrej Hillside Colony, Vikhroli, Bombay 40007 Ph off: 584461-9, 586861-9.

ANJANEYA PRASAD, Dr Dharmapuram: Prof & He Dept of Anim Sc, Coll of Vet Sc, Tirupat b 15 Apr 33. Ed: BVSc, 54, Madras; MVSc 62, Madras; PhD, 72, Kansas State Univ, USA. Add off: Coll of Vet Sc, Tirupati 517502; resi: 18-1-307, Bhavaninagar, Tirupati 517501; Ph off: 2531.

ANSARI, Mohammad Hasan: Vice-Pres, UP Poul Farmers Assn & Prop, Star Poul Farm; b 30 Mar 23. Ed: BSc, 43. Add: Ahmad Manz Abdul Aziz Rd, Chowk, Lucknow; Ph: 8259

APTE, Vasudeo Hari: Gen Mgr, Srini Biologi Laboratories Pvt Ltd; b 1938. Ed: BVSc (Hons), 59, MVSc, 62, Bombay. Add: 13/6 Milestone, Pune-Panshet Rd, PO Girinaga Pune 411025; Ph: 442244, 30241.

ARANGADEN, M J: Prop, Poultry Cage Enterprises; b 4 Nov 49. Ed: AMAIE, 70. Add off: 465, 10th Main 5th cross, Vivekanagar, Bangalore 560047; Ph: 579730.

ARAVINDAN, Madhavan: Scientist (Anim Sc Ed cation), ICAR; b 16 Jan 37. Ed: BVSc, 6 Kerala; MVSc, 69, Agra. Add off: Krishi

Bhavan, New Delhi 110001; resi: 52-B MIG Flats, Pocket C, Ashok Vihar, Phase II, New Delhi 110052; Ph off: 389116.

ARORA, Avinash Chander: Mktg Mgr, Agril Div, Pfizer Ltd; b 20 Aug 38. Ed: BVSc & AH, 60, Vikram, Ujjain. Add off: Express Towers, Nariman Point, Bombay 400021; resi: Pushpa Milan, Worli Sea Face, Bombay; Ph off: 2022824; resi: 4931221.

ARORA, Prithvi Nath: Prop, Vivek Poultry Farm; b 20 Aug 35. Add: Vill Navtaria, PO Jamul Cement Works 490024, Dist Durg, MP; Ph: 5861; resi: 5240.

ARULAPPAN, Alphonso Bhagwandas: Head, Dev Div, Deejay Group; b 23 Nov 25. Ed: BE (Mech), 48, Madras. Add off: 3rd Floor, St Patrick's Complex, Brigade Rd, Bangalore 560025; resi: No 1 Rogers Rd, Richards Town, Bangalore 560005; Ph off: 562738, 562749; resi: 568188.

ASHOK KUMAR, P: Mg Partner, Mandovi Hatcheries; b 18 Dec 54. Ed: B Com, 75, S V Univ; Dip in Mgt, 76, Calcutta. Add off: 68/1 Khandepar Vill, Ponda-Goa; resi: Shanti Nagar, Ponda-Goa; Ph off: 277, farm: 127, resi: 74.

ASTHANA, V S: Dir, AH Dept, UP; b 2 Feb 29. Ed: BSc, 47, Lucknow, BVSc & AH, 51, Agra, MRCVS, 54, London. Add off: Gokaran Nath Rd, Lucknow 226007; resi: Nideshak Awas, Pashupalan Nideshalaya Campus, Badshah Bagh, Lucknow; Ph off: 42966.

B

BABRAS, Dr M A: Jt Dir of AH, (Spl Livestock Prod Prog), Maharashtra; b 16 Oct 28. Ed: BVSc, 52, Osmania; MVSc, 62, Bombay. Add off: Central Bldg, Pune 411001; resi: 35/522 Lokmanya Nagar, Pune; Ph off: 22381.

BABU SINGH: Pres, AIPFA; b 31 Oct 25. Add: Harindra Farm, Mehrauli-Dera-Bhati Rd, PO Dera, New Delhi 110030; Ph: 661674.

BAHL, Sat Pal: Comml Mgr, Venkateshwara Hatcheries Group, New Delhi; b 19 Oct 20. Ed: MA (Econ). Add: B-48 NDSE-II, New Delhi 110049; Ph: 669439.

BAJAJ, Agya Pal Singh: Mg Partner, Goodwill Poultry Breeding Farms; b 16 June 43. Ed: BCom, 63, Punjab. Add off: 27-SCF Phase-I, Main Market, Sarabha Nagar, Ludhiana; resi: 57-I, Sarabha Nagar, Ludhiana; Ph off: 26560; resi: 24918, 34213.

BAJAJ, Chaman Lal: Prop, Arora Bajaj Poultry Farm. Add off: c/o Purse Emporium, 20 New Janpath Market, Indian Oil Bhawan, New Delhi 110001; resi: 451 opp New Courts, Gurgaon 122001 (Haryana); Farm: Behind Waterworks, Sohna Rd, Vill & PO Badshahpur 122101, Dist Gurgaon; Ph off: 311461; resi: 2844, 2905; farm: 32.

BAKSHI, Inderjit Singh: Jt Dir, Poultry-cum-Livestock Production, AH Dept, Kashmir Div, J & K; b 7 Apr 37. Ed: BVSc, 58, Madras; MVSc (AH), 71, Jabalpur. Add off: Gowkadal, Srinagar 190001; Ph off: 72955.

BAKSHI, Shashi: Prop, Baxi Medical Stores; b 6 Mar 39. Ed: MA, 62, Agra. Add off: Tees Hazari, Delhi 110054; resi: 22/73 West Patel Nagar, New Delhi 110008; Ph off: 2918681, 2511159; resi: 587171, 5721616.

BALAINE, Dr Daya Singh: Prof & Head, Anim Breeding, Coll of Anim Scs, HAU; b 1 Sept 35. Ed: BVSc & AH, 59, Punjab; MSc, 64, Punjab; PhD, 67, PAU. Add off: Hissar 125004; resi: 6/5 HAU, Hissar; Ph off: 3721 Ext 262; resi: 2398.

BALAN, S M: Gen Mgr (Mktg), Vet Div, Sarabhai Chemicals; b 10 July 31. Ed: BSc (Vet) Hons, 54, Bombay. Add off: 616/617, Off Vikram Sarabhai Marg, Behind Shastri Bridge, Vadodara 390003; Ph off: 66828.

BALWANT SINGH: Dean, Coll of Vet Sc, Punjab Agril Univ, Ludhiana 141004.

BAMBOLCAR, Vasant Camotim: Gen Mgr (Dev), Central Bank of India; b 10 Jan 29. Ed: BA, MCom, CAIIB. Add off: Chander Mukhi, Nariman Point, Bombay 400021; resi: 93-B Tower, Jolly Maker Apartments No 1, Cuffe Parade, Bombay 400005; Ph off: 2026428; resi: 214223.

BANERJEE, Asim: Sales Mgr, Anim Products, Cyanamid India Ltd; b 11 Nov 44. Ed: BVSc & AH, Calcutta. Add off: Nyloc House, 254-D2 Dr Annie Besant Rd, Bombay 400025; resi: Shri Avdhoot Coop Housing Society Ltd, Flat No C-3, Bldg A/5, Dahisar (East), Bombay 400068; Ph off:4935211.

BANERJEE, B K: Mg Dir, West Bengal Dairy & Poul Dev Corpn Ltd. Add off: 16 Netaji Subhas Rd, Calcutta 700001; Ph off: 221995, 229432.

BANERJEE, Shyamalendu: Gen Mgr, Apsara Starchick Breeders; b 23 Oct 37. Ed: BSc, 57, Calcutta. Add off: 16 Palm Avenue, Calcutta 700019; resi: 1 Natore Park, 2nd Rd, Calcutta 700039; Ph off: 434004, 431672; farm: 21 (FALTA).

BANSAL, Raj Kumar: Mg Partner, Punjab Agro-vet Industries; b 19 May 47. Ed: MSc, (Statistics), Punjab Univ; MBA, Punjab Univ. Add off: 282 Industrial Area,

Phase II, Chandigarh; resi: 407, Sector 30-A, Chandigarh; Ph off: 43758; resi: 42957.

BARA, George: Jt Dir (Poul), AH Dept, Bihar; b 19 Nov 28. Ed: GBVC, 49, Patna; PG (Poul Husbandry), 59, Izatnagar; PG (Poul Mktg), 62, USA. Add off: Vikas Bhawan, Patna 800015; Ph off: 23173; resi: 62356.

BARVE, Gajanan Ramchandra: Poultry Farmer; b 20 Sep 35. Ed: Livestock Supervisor's Course. Add farm: Suneeti Farm's Poultry World, Usgaon, Goa; resi:'Ashirwad', Plot No 24, Ganeshmala, Vithalwadi Rd, Pune 411030; Ph resi: 30410.

BASHA, Syed Khader: Mg Partner, Ess Kay Agro-Vet Industries; b 12 July 50. Ed: BSc (Chemistry), 71, Madras. Add off: No 1230/C, Katchery Rd, PB No 104, Vaniyambadi 635751, Tamil Nadu; resi: 1343 M J St, Neel Field, Vaniyambadi; Ph off: 2815.

BASNET, Dr Bhim Singh: Dir-cum-Sec, Animal Husbandry, Govt of Sikkim; b 7 Mar 39. Ed: BSc (Agri), 64, Allahabad; PhD, 73, Kansas State Univ, USA. Add off: Dept of AH, Govt of Sikkim, Gangtok; resi: Basnet Cottage, Below Lall Market, Gangtok; Ph off: 2504; resi: 2324.

BAXI, Dr K K: Prof of Bacteriology, Dept of Vet Bacteriology & Virology, Coll of Vet Sc, PAU; b 25 Apr 38. Ed: BVSc, 58, Jabalpur; MVSc, 62, Punjab; Dr met vet, 69, W Germany; PhD, 69, Agra. Add off: Coll of Vet Sc, PAU, Ludhiana 141004; resi: 9/6 Punjab Agril Univ, Ludhiana 141004; Ph off: 22960 Ext 229; resi: 22960 Ext 343.

BEDI, Charnjit Singh: Mgr (Anim Health Care Div), M J Pharmaceuticals Ltd; b 22 Feb 41. Ed: BVSc & AH, 63, PAU, Hissar. Add off: 126 Jolly Maker Chambers-II, Nariman Point, Bombay 400021; resi: 109-C Neelkamal Apartment, 7 Bungalows, Andheri (West), Bombay 400058; Ph off:2027311,2020644.

BEHL, Prem Sagar: Pres, M P Assn of Poul Industry & Prop, A-One Poul Farm; b 13 Apr 36. Ed: MA, 63, Punjab. Add: Jail Rd, Raipur 492001; Ph: 23482.

BHAGWAT, Dr Ashok Laxmanrao: Dir, Inst of Poul Mgmt of India; b 7 Jan 39. Ed: BVSc, 61, Bombay; NDPH, IVRI, 66; MS, 73, PhD, 77, Kansas Univ, USA. Add off: c/o Western Hatcheries P Ltd, 14/6 Milestone Pune-Sholapur Rd, Naigaon 412110; Ph: 79207.

BHAINDARKAR, Madhu K: Chief Mgr, Agril Finance Dept, Bank of India. Add off: Airlines Hotel Bldg, 199 Jamshedji Tata Rd, Churchgate, Bombay 400020; Ph off: 221975; resi: 577391.

BHANDARI, Dhirendra Singh: Jt Dir (Admn), AH Dept, Rajasthan; b 2 Nov 34. Ed: BVSc & AH, 57, MVSC, 67, Postgraduate Dip in Anim Sc, 75, Denmark. Add off: AH Dept, Govt of Rajasthan, Jaipur; resi: 2 Museum Rd, Jaipur; Ph off: 77984; resi: 46847, 46409.

BHANDARI, Dilip Rajendar Singh: Chief Executive, Bhandari Crossfields Ltd; b 25 Dec 54. Ed: BCom, MBA. Add off: PB No 143, Indore 452001; resi: "Nandanvan", 1 Mahatma Gandhi Marg, Indore 452001; Ph off: 39382; resi: 5571.

BHANDARI, R M: Partner, Bhandari Homoeopathic Laboratories, 3829 Chowk Daryaganj, Delhi 110002; Ph off: 273958; resi: 6418864.

BHANDARI, Rajendrasingh Suganmalji: Mg Dir, Bhandari Crossfields Ltd; b at Indore. Add off: PB No 143, Indore 452001; resi: "Nandanvan", 1 Mahatma Gandhi Marg, Indore 452001; Ph off: 36667; resi: 5571

BHARDWAJ, Capt V P: Ext Specialist; b 18 Dec 18. Ed: BA, 38, Punjab Univ. Add: F-4/8 Krishna Nagar, New Delhi 110051.

BHASIN, Dr N R: OSD (Processed Foods), Min of Commerce, GOI; b 10 Aug 40. Ed: BVSc & AH, 60, Rajasthan; MVSc, 64, Agra; PhD 69, Pantnagar. Add off: Udyog Bhavan, New Delhi; resi: A-808 Curzon Rd Flats, New Delhi-1; Ph off: 3016334; resi: 386753.

BHASKAR RAO, K: Mg Dir, B L V Hatcheries Pvt Ltd; b Sept 48. Ed: BSc. Add off: 1-1-169/A, Mushirabad, Hyderabad 500020; Ph off: 63770, 63773; resi: 63069.

BHAT, Dr Pushkar Nath: Dir, Indian Vet Res Inst (IVRI); b 9 Oct 37. Ed: BVSc, 59, Agra; MVSc, 61, Agra; PhD, 64, Purdue, USA. Add: Izatnagar 243122, UP; Ph off: 74069; resi: 74113.

BHATTACHARYYA, Manindra Nath: Mgr-cum-Poul Consultant, Chhattisgarh Poultry Feed Products; b 31 Aug 50. Ed: BCom, Calcutt Univ, Dip in Poul Breeding and Poul Farm Mgrs Course, 72-76, Switzerland. Add:M P Housing Board Colony, Qr No D-19/20, Industrial Estate, Bhilai, MP;Ph off:566

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BIRENDRAKUMAR SINGH, Chongtham: Poul Dev Offr, Manipur; b 1 Apr 36. Ed: GVSc, 62, Guwahati; NDPH, 68; Dip in Duck Breeding, 76, Hungary. Add off: Directorate of Veterinary & AH Services, Govt of Manipur, Mantripukhri Thangmeiband Kabrabam Leikai, near NCC Office, Imphal; Ph off: 97; resi: 1485.

BISHNOI, Ashok: Sales Mgr (AHP), Eskayef Ltd; b 22 Aug 43. Ed: BVSc & AH, 67, Pantnagar; DMM, 81, Chandigarh. Add off: Devanhalli Rd, off Old Madras Rd, Bangalore 560049; resi: 8/2 Palm Grove Rd, Victoria Layout, Bangalore 560047; Ph off: 58861-5; resi: 52872.

BISHWAS, Paul Derwin: Asst Dir(Poul),Udaipur; b 4 July 34. Ed: BVSc & AH, 59. Add off: c/o Dep Dir (AH) Range, Udaipur 313001, Rajasthan; Ph: 24806, 26247.

BISWAS, Satyendra Nath: Poul Consultant; b 1 Apr 30. Ed: BA, 54, Calcutta; Dip in Poul, Allahabad. Add: PC Champahati 743330, Dist 24-Parganas, West Bengal.

BORA, Lalit Chandra: Associate Prof & Head, Dept of Anim Production & Management; b 29. Ed: MS, 62, Missouri, USA. Add: Coll of Agri, Assam Agril Univ, Jorhat 785013.

BOSE, Dr Sarashipada: Retd Head, Div of Poul Res, IVRI; b 2 Jan 09. Ed: MSc, 31, Dacca, Bangladesh; PhD, 37, London. Add: B 8/128 Kalyani, Nadia Dist, West Bengal.

BRAHMAKSHATRIYA, Dr Raghuvir D: Poul Nutritionist, Venkateshwara Hatcheries Pvt Ltd; b 7 Mar 38. Ed: BVSc & AH, 65, Bombay; MS, 68, PhD, 71, Univ of Minnesota, USA. Add off: 13/6 Milestone, Panshet Rd, Girinagar, Pune 411025; resi:Mahesh Kunj, Opp Ramesh Market, Senapati Bapat Marg, Pune 411016; Ph off: 31299; resi: 50145.

BUBBER, Man Mohan Singh: Pres, Amritsar Dist Poul Farmers' Assn; Vice-Pres, Punjab Poul Farmers' Assn; Mem, Poul Advisory Cttee, Punjab Govt, & Prop, Butari Poul Farm; b 2 Dec 44. Add Farm: Rly Rd, Butari; resi: 106 Lawrence Rd, Amritsar 143001; Ph: 46015; Farm: 72 (Rayya Exch).

BUCHI REDDY, K: Dir, C B R Hatcheries Pvt Ltd; b 1 Aug 39. Ed: BVSc & AH, 63, Osmania. Add off: 4-F, Subhodaya Apartments, Hyderabad 500001; resi: Vidhyanagar, 1-9-295/32, Hyderabad 500044; Ph off: 232774; resi: 65174.

BULBULE, Vithal Damodharrao: Dir, Central Duck Breeding Farm (GOI); b 7 June 35. Ed: BVSc, 58, Hyderabad; NDPH, 66, IVRI; MVSc, 74, Agra. Add: Poultry Complex, Hessarghatta 560088 (Bangalore North); Ph off: 38 (HSGA), resi: 55.

C

CHAAND, H K: Pres, Kangra Coop Poul Mktg & Industrial-cum-Processing Society Ltd, & Mg Partner, Snowhite Poultry Breeding Farm; b 10 Feb 41. Ed: Graduate, 62, Punjab Univ. Add: Vill & PO Ghurkari, Kangra 176001, Himachal Pradesh; Ph off: 63, Factory: 181, resi: 81.

CHADHA, Brij Mohan: Poul Farmer & Past Sec, Delhi Poul Assn; b 10 July 26. Ed: BA, 58, Punjab. Add: 159, SFS, Munirka Enclave, New Delhi 110067; Ph farm: 669817; resi: 668467.

CHADHA, Ramesh Chandra: Mg Partner, Prestige Feeds; b 15 Feb 47. Ed: Master's degree in Poultry Husbandry, 71, GB Pant Univ. Add: 8/8 Kilometerstone, Nagarjunasagar Rd, Bhyramalguda, Hyderabad 500963; Ph off: 559407; resi: 226135.

CHAHAL, Gurcharan Singh: Gen Mgr, The Punjab Poultry Dev Corpn Ltd; b 5 May 46. Ed: BVSc & AH (Hons), 69, PAU, Hissar. Add off: Kothi No 517,Sector 33-B,Chandigarh 160031; Ph off: 28491, 33050, 25721.

CHAKRABORTY, Nirmal Bikash: Mg Dir, Stanvet Products Pvt Ltd; Ed: BSc, Calcutta; AIC, Calcutta. Add off: 13/1 Ultadanga Rd, Calcutta 700004; resi: 56/1C, Ananth Nath Dev Lane, Calcutta 700037.

CHANDRA, Brij, Brig (retd): Consultant; b 8 July 18. Ed: MRCVS, 41, London, DTVM, Edinburgh, UK. Add resi: C-384 Defence Colony, New Delhi 110003; Ph: 611870.

CHANDRA NARAYAN, Dr: Prop, Narayan Poultry Farm, PB 31, Ajmer 305001, Rajasthan; Ph: 21043, 20987.

CHATRATH, Usha, IAS: Ex-Chmn & Admn, Sharda Sahayak CAD Proj. Add off: B-51, Mahanagar Extn, Mandir Marg, Lucknow 226006; Ph: 33983.

CHATTERJEE, Arun Kumar: Jt Commissioner (Meat & Meat Products), GOI; b 1 May 32. Ed: BVSc, 57, Calcutta; MS (Meat Tech), 63, Missouri, USA. Add off: Dept of Agri, GOI, Krishi Bhavan, New Delhi 110001; resi: DII/56 Kidwai Nagar West, New Delhi 110023; Ph off: 389714; resi: 604432.

CHATTERJEE, Fanindra Nath: Pres, West Bengal Poul Growers Assn; b 1 Feb 09. Ed: GVSc, 32. Add: P-246, B-Block, Lake Town, Calcutta 700055.

CHAUDHARY, Dr Ram Prakash: Dean, Coll of Agri, GB Pant Univ of Agri & Technology; b 14 Feb 29. Ed: BVSc & AH, 50; MS, 56, Michigan, USA; PhD, 67, Illinois, USA. Add off: Pantnagar 263145, Nainital Dist.

CHAUDHURI, Debabrata: Head, Dept of Technology Transfer, Central Avian Res Inst; b 30 Dec 50. Ed: BVSc & AH, 72, Calcutta; MVSc, 75, Agra. Add off: IVRI Campus, Izatnagar 243122; resi: Type III, Qr No 4, CARI, Izatnagar; Ph off: 74332, 74230, 74095, 76095.

CHAUHAN, Dr Hari Vallabh Singh: University Professor of Pathology, Vet Coll, Kanke, Ranchi; b 21 Mar 38. Ed: BVSc, 59; MVSc, 64, Jabalpur; PhD, 69, PAU; Colombo Plan Trg (Marek's Disease); UNDP Fellowship (Trg in SPF Methods), 75, Univ of West Australia. Add off: Kanke, Ranchi 834007.

CHAWLA, Ravi: Dir, Egg & Poultry Industry Centre (EPIC), Editor, Poultry Times; b 20 July 36. Ed: BA, 58, JD, 61, Bombay, BAE Francais, 73, Paris. Add off: PB No 2489, Room 24, Mulji Jetha Bldg, 185/187 Princess St, Bombay 400002; resi: 106 Chetna, 142 J P Rd, Versova, Bombay 400058; Ph off: 314313; resi: 621018.

CHHABRA, Prabhu Dayal: Poul Dev Unit, Dept of Agri, GOI. Add off: Krishi Bhavan, New Delhi 110001; resi: WZ A-27 Krishna Park Extn, Tilak Nagar, New Delhi 110018; Ph off: 388911 Ext 672.

CHOPRA, Amrit Sagar: Jt Dir (AH Statistics), Min of Agri, GOI; b 19 Apr 37. Ed: MA, 58, Delhi; PG Dip, 60, IASRI. Add off: Room No 234-A, Krishi Bhavan, New Delhi 110001; resi: A-322 Pragati Vihar, Lodi Rd, New Delhi; Ph off: 389301.

CHOPRA, Shri Ram: Chief Exec, Friends Steel Industries; b 30 Sept 48. Ed: BSc, 70, Delhi Univ. Add off: 163 Kamla Market, New Delhi 110002; resi: J-6/111 Rajouri Garden, New Delhi 110027; Ph off: 273153; resi: 593311.

CHOUDARY, Dr Maddini Ramaiah: Dir, Central Training Inst for Poul Production & Management, GOI, Hessarghatta; b July 39. Ed: BVSc, 63, Tirupati; MVSc, 67, Madras; PhD, 71, Kansas, USA. Add: Hessarghatta, Bangalore 560088; Ph off: 384303 & 26 (Hgt); resi: 37 (Hgt).

CHOUDHURY, Ashok Kumar: Dir, Manas Products (Protein) Pvt Ltd; b 23 Dec 41. Ed: BA Hons (Hist), 61. Add off: Rajgarh Rd, Guwahati 781003; resi: Anantababa Ashram Path, New Guwahati 781020; Ph off:27970; resi: 27310.

CHOUDHURY, Dipak Kumar: Dir, Manas Products (Protein) Pvt Ltd; b 29 Jan 46. Ed: BSc Hons (Math), 66. Add off: Rajgarh Rd, Guwahati 781003; resi: Hatigarh, Guwahati 781021; Ph off: 27970.

CHOUDHURY, Jayanta Kumar: Dir, Manas Products (Protein) Pvt Ltd; b 8 Sep 52. Ed: BSc Hons (Mech), 72. Add off: Rajgarh Rd Guwahati 781003; resi: Anantababa Ashram Path, New Guwahati 781020; Ph off: 27970 resi: 27310.

CHOUDHURY, Ranjan Kumar: Dir, Manas Product (Protein) Pvt Ltd; b 1 Aug 50. Ed: BA Hons (Eng), 70. Add off: Rajgarh Rd, Guwahati 781003; resi: Lalmati, Ananda Nagar, Guwahati 781020; Ph off: 27970; resi: 25945.

CHOUSALKAR, Sudhakar Shivajirao: Mktg Mgr, Anfeed, Div of Themis Chemicals Ltd; b 8 Nov 38. Ed: BVSc & AH, 64, Nagpur. Add off: ANFEED, Animal Health Products, Poonam Chambers, Dr A B Rd, Worli, Bomba 400018; resi: D66/1281 Azadnagar, Veera Desai Rd, Andheri, Bombay 400058; Ph off 4929619, 4921974; resi: 620012.

CHOWDHURY, Shyamal Baron: Dep Mgr (Mktg), W Bengal Dairy & Poul Dev Corpn Ltd; b 11 July 33. Ed: BCom, 54, Calcutta. Add off: 16 Netaji Subhas Rd (3rd Floor), Calcutta 700001; resi: 47/1A Sree Gopal Mallik Lane, Calcutta 700012; Ph off: 229432; resi: 344086 (PP).

CORDEIRO, Vincent P: Advisor, Deejay Group; b 18 Mar 09. Ed: BA. Add off: 3rd Floor, St Patrick's Complex, Brigade Rd, Bangalore 560025; resi: 37 Residency Rd Cross, Bangalore 560025; Ph off: 562738, 562749; resi: 577746.

D

DALGADO, Smt Claire: Poul Farmer; b 23 Nov 26. Add: Kinn Poultry, Palaspa, Panvel 410206, Raigad Dist, Maharashtra; Ph:261

DALY, Roy K: Mgr, Equipment Div, Deejay Group; b 9 Feb 47. Ed: DME. Add off: 3rd Floor, St Patrick's Complex, Brigade Rd, Bangalore 560025; resi: 179, 6th Block, Koramangala Layout, Bangalore 560034; Ph off: 562738, 562749.

DARSHAN SINGH, Maj-Gen (retd): Chmn, Progressive Poul Farmers Assn, Chandigarh; b 18 Feb 22. Add off: SCF 9/10 Sector 19C, Chandigarh 160019; resi: "Hillview" Manimajra, Chandigarh 160101; Ph off: 20208; resi: 31414.

DAS, Jogananda: Mg Dir, Assam Livestock & Poul Corpn Ltd; b 1 Mar 30. Ed: MS, 60, Oregon State Univ, USA. Add off: Chanikuthi, Guwahati 781003; Ph resi: 87370 (Khanapara).

DAS, Nikhileswar: Prop, Natraj Hatcheries;

b Mar 39. Ed: BA, Calcutta. Add off & resi: Vill & PO Prithiba, Habra, 24-Parganas, West Bengal; Ph: 122.

DAS, Satya Brata: Poul Dev Offr, Meghalaya; b 1 Apr 34. Ed: GVSc, NDPH. Add off: Dte of AH & Vet, Addl Bldg, Civil Sectt, Shillong 793001; resi: Vet Compound, Garikhana, Shillong 793002; Ph off:3588.

DATT, Dr Narinder Singh: Gen Mgr, The Bharatiya Agro-Industries Foundation; b 11 Sept 23. Ed: LVP (Hons), 45, BVSc, 54, Punjab; PhD, 57, Cambridge. Add off: BAIF-BRIAH, off Pune-Nagar Rd, Wagholi, Pune 412207; resi: 23 Yeshwant Nagar, Ganeshkhind, Pune 411007; Ph off: 70408-9, 70459, 70859; resi: 57434.

DATTARAJ, Meda Kusturiranga: Tech Dir, Mysore Feeds Pvt Ltd, Bangalore; b 11 Aug 45. Ed: BSc, Univ of Mysore; MSc, Kansas State Univ, USA. Add off: 283-284 Old Tharagupet, Bangalore 560053; resi: 27, 'Prashanth', Bull Temple Rd, Bangalore 560004; Ph off: 71471, 27235, 27236; factory: 601190; resi: 61124.

D'CRUZ, Winston V: Chief Exec, Deejay Group; b 23 Dec 44. Ed: BSc, DERE, Grad, IERE, MBA. Add off: 3rd Floor, St Patrick's Complex, Brigade Rd, Bangalore 560025; resi: 34, III Floor, Mohini Apartments, Rest House Rd, Bangalore 560001; Ph off: 562738, 562749.

DE, Dr Barindra Nath: Jt Dir of Vet Services, W Bengal; b 23 Mar 37. Ed: BVSc & AH, 58, Calcutta; FRCVS, 69, Stockholm (Sweden); PhD, 75, Magadh. Add off: New Secretariat Bldg (3rd Floor), 1 K S Roy Rd, Calcutta 700001; resi: 268 Bangur Ave, Block B, Calcutta 700055; Ph off: 236271 Ext 60; resi: 575470.

DEDHIA, Chandrakant Kanjibhai: Mg Dir, Gujarat State Poul Farmers' Coop Federation Ltd; b 5 May 34. Ed: BVSc, 57, Jabalpur; NDPH, 67, IVRI; MVSc, 82, Gujarat Agril Univ. Add off: 61 Sardar Patel Colony, Stadium Rd, Ahmedabad 380014; resi: A/3 Manali Apartments, Dr Vikram Sarabhai Marg, Ahmedabad 380015; Ph off: 444551; resi: 462581.

DESAI, Dr Ishvarchandra M: Editor, Poultry Sandesh, & Partner, Modern Poultry Feeds. Ed: BSc, BSc (Tech), PhD. Add: Saket, Mahadevnagar, Bilimora 396321; Ph Factory: 306; resi: 2664.

DESAI, M K: Mktg Mgr, Anim Health Products, Anfeed Div, Themis Chemicals Ltd; b 2 May 25. Ed: GBVC, 47, Bombay. Add off: Poonam Chambers, Dr A B Rd, Bombay 400018; resi: Nivetia Bungalow, Nivetia Rd, Malad (E), Bombay 400097; Ph off: 4921974.

DESAI, Dr Manibhai Bhimbhai: Mg Trustee & Dir, The Bharatiya Agro-Industries Foundation; Mem, Consultative Committee, Indian Dairy Corpn; Mgmt Committee, Indian Grassland & Fodder Research Inst; Mem, Standing Committee, ICAR; b 27 Apr 20. Ed: BSc, Bombay; Hon Degree of Doctor, 77, Mahatma Phule Krishi Vidyapeeth. Add off: 'Kamdhenu', Senapati Bapat Marg, Poona 411016; Ph: 52621/2/3, 48, 65 (Uruli-Kanchan).

DESAI, Moreshwar Bhagwant: Dir, Agrocorpex India Ltd, and Mgr, Prabhat Poultry; b 2 Jan 36. Ed: MCom, 60, Bombay. Add off: Agrocorpex India Ltd, 153 Mittal Tower, C Wing, Nariman Point, Bombay 400021; Prabhat Poultry, "Sushil", 14 Veer Savarkar Marg, Dadar, Bombay 400028; resi: "Kermaan", 9 Keluskar Rd, Shivaji Park, Bombay 400028; Ph off: 243839 (Agrocorpex), 451103, 4221607; resi: 462883.

DESAI, Prakash Haribhai: Industrialist; b 3 Aug 54. Ed: BCom, 76, Gujarat. Add off: Piyush Wirenetting Industries, 2 GIDC Petlad 388450; resi: "Ashadeep", Station Rd, Petlad 388450; Ph off: 330, 677 & 600; resi: 630.

DESHPANDE, Yashwant Gangaram: Asst Mgr, Product Promotion (Vet), Hoechst India Ltd; b 11 Nov 42. Ed: BVSc & AH, 67. Add off: PO Box 11123, Bombay 400021; resi: C-22 Ameet Anand Coop Soc, Near Parmath Niketan, Panchpakhadi, Thane (W) 400602; Ph off: 230607.

DEV, Dr Dalbir Singh: Dean, Faculty of Agri, PAU; b 10 Mar 36. Ed: BSc (Agri), 58, Punjab; MS (Poul Sc), 61, PhD (Anim Breeding), 68, Ohio, USA. Add off: Ludhiana 141004; resi: 8/21 PAU Campus, Ludhiana; Ph off: 22960.

DEVINDER SINGH: Partner, Empire Farms, 66, Sector 21-A, Chandigarh 160021.

DEVLALIWALLA, Rohinton Fardoon: Prop, Reviera Poul Farm; b 10 June 46. Add off: 25, Kappawalla Agyari Annexe, Sir Ratan Tata Rd, Tardeo, Bombay 400034; resi: 25-27, Dhondy Rd, Deolali, Dist Nasik, Maharashtra; Ph farm: 41281, 41733 (Nasik); off: 4944270, 4941141 (Bombay).

DHAR, Wikil: Sr Mgr, Regional Poul Breeding Farm, Govt of Meghalaya, Kyrdemkulai (NEC), PO Naya Bungalow 793105, Dist East Khasi Hills, Meghalaya.

DHARIA, Anant Kumar: Mg Dir, Trimbak Hatcheries Pvt Ltd. Add: Vill Lakhmapur, Tk Dindori, Dist Nasik (422202); Ph: 55, 77 (Dindori).

DHUPELIA, Utsav: Pres, Foods and Inns Ltd, Add off: Devnar, Sion-Trombay Rd, Bombay 400088; Ph off: 5516335, 5517336, 5513410.

DRONAWAT, Dr N S: Yarana Feeds & Farms, Hubli; b 1 Sept 30. Ed: BVSc, 52, Sagar; MVSc, 60, Agra; MS, 64, Hawaii, USA; PhD, Washington, USA. Add off: PB 2, Industrial Estate, Hubli 580010; resi: 8/1 Sidharuth Math Rd, Hubli; Ph off: 4450, 4875; resi: 2412.

D'SOUZA, E M: Prop, Nasik Egg Enterprise. Add off: Trimbak Rd, Nasik 422002; Ph: 73522, 88580, 88734.

D'SOUZA, Herbert B, Maj: Mktg Mgr, The India Poultry Farm; b 14 May 34. Ed: PSC, 65, Defence Services Staff Coll, Wellington. Add off: 5 Residency Rd, Bangalore 560025; resi: 18 Cline Rd, Cooke Town, Bangalore 560005; Ph off: 50539; resi: 55406.

DUA, Joginder: Mg Partner, Blue Cross Farmaids Co, Delhi; b 1 Mar 50. Ed: BSc, Delhi. Add: 99-UB Jawahar Nagar, Delhi 110007; Ph: 2918037.

DUBEY, Vishwa Nath: Prop, Phoenix Poultry; Vice-Chmn,NECC; b 17 July 39. Ed: BE Hons Mech, 61, Jabalpur; MBA, 68, Michigan, USA. Add off: PB 75, 201/15 Ratan Colony, Gorakhpur, Jabalpur, MP; Ph off: 27614.

DWIVEDI, Jitendra Narain: Mgr Veterinary, Hoechst India Ltd; b July 43. Ed: BVSc & AH, 63, Vikram Univ; MVSc, 66, Agra; Dip Mktg, 79. Add off: PO Box 11123, Bombay 400021; resi: 1/4 Amarjyoti, Naupada, Thane; Ph off: 230607; resi: 508619.

F

FAQIR CHAND VIJ: Partner, Faqir Chand Shanti Lal; b 15 Feb 32. Add off: WZ-19 Uggar Sain Market, Ashok Nagar, New Delhi 110018; resi: 40A/3 Ashok Nagar, New Delhi; Ph off: 502231; resi: 533499.

FAZAL, Mohammd Abdullah Tagadawala: Jt Editor, Poul Adviser; b 13 Sept 55. Ed: BVSc, 78, Bangalore. Add off: 97 St John's Church Rd, Bangalore 560005; resi: 45 V Main Rd, Jayamahal Extn, Bangalore 560046; Ph off: 573480; resi: 576243.

FUTNANI, Kishore Kumar M: Mg Partner, Futnani Hatcheries. Add off: 13 Anna Avenue, Adyar, Madras 600020; Ph off & resi: 411581, 419109.

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GAFFAR, Tagadawala Abdul: Editor & Publisher, Poul Adviser, Bangalore; b 19 Jan 19. Ed: MA, 42, Madras. Add off: 97 St John's Church Rd, Bangalore 560005; resi 45 V Main Rd, Jayamahal Extn, Bangalore 560046; Ph off: 573480,561627; resi: 576243.

GANANOU, Alfred: Dep Dir (Poul), Pondicherr Ed: BVSc, 66, Madras, NDPH, 70, IVRI. Ad off: Dte of AH, Pondicherry 605001; resi 18 Nidarajapayar St, Pondicherry 605001 Ph off: 4228; resi: 3933.

GANESH, Raman: Chief Consultant, Ganesh Associates, Consultants; b 20 June 32. Ed: BVSc, 60, Madras. Add: 17 Karneeswarar Pagoda St, San Thome, Madras 6000 Ph off & resi: 72529.

GANJU, Guninder: Mg Partner, Stark Breeding Farm; b 29 Mar 55. Ed: MA, JNU, Delhi. Add: 37D-B/C Gandhi Nagar, Jammu 180004; Ph: 44888.

GARCHA, Surjit Singh: Pres, Punjab Poultry Farmers Assn; b 20 June 24. Add: 228A Sarabha Nagar, Ludhiana; Ph off: 20594; resi: 27015.

GARG, Dr Saryu Prakash: Mg Dir, Bio-Med (P) Ltd; b 18 June 38. Add off: C-96 Site No 1, Industrial Area, Bulandshahr Rd, Ghaziabad 201001, UP; resi: KB-27 Old Kavinagar, Ghaziabad 201002; Ph off: 46210; resi: 43212.

GARWARE, Harish Rajaram: Chief Exec, Garwar Beverages, & Jt Mg Dir, Garsons Engineer Pvt Ltd; b 19 Mar 58. Add off: 4 Navroji Vakil St, Nana Chowk, Bombay 400007;resi 9 Neel Sagar Apartments, 1280, Prabhadev Sea Face, Prabhadevi, Bombay 400025; Ph off: 381281; resi: 4225571.

GARWARE, Satish Rajaram: Chief Exec, Garwar Beverages, & Exec Dir, Garsons Engineers Pvt Ltd; b 28 May 60. Add off: 4 Navroji Vakil St, Nana Chowk, Bombay 400007;resi 9 Neel Sagar Apartments, 1280, Prabhadev Sea Face, Prabhadevi, Bombay 400025; Ph off: 381281; resi: 4225571.

GARWARE, Shirish Rajaram: Chief Exec, Garware Beverages; b 3 Aug 56. Ed: BE (Mech), 81, Mysore Univ. Add off: 4 Navroji Vakil St, Nanachowk, Bombay 400007; resi: 9/1280, Neel Sagar Apartments, Prabhadevi Sea-Face, Bombay 400025; Ph off: 381281; resi: 4225571.

GAWANKAR, Narayan Chintaman: Gen Mgr (AF Mktg), Godrej Soaps Pvt Ltd, Bombay; b 1 Feb 25. Ed: BSc. Add off: Eastern Expres

Highway, Vikhroli, Bombay 400079; resi: Champa Niwas, 14 Gokhale Rd (North), Dadar, Bombay 400028; Ph off: 584461; resi: 456977.

GEORGE, Sukumar: Zonal Mgr, Anim Feeds (South), The Tata Oil Mills Co Ltd. Add off: 114, Ist Floor, M G Rd, Bangalore 560001; Ph off: 576375.

GHAFOOR, Dr M A: Dean, Faculty of Vet Scs & AH, Shere-e-Kashmir Univ of Agril Scs & Technology; b 2 Sept 29. Ed: BVSc, 54, Osmania; MVSc, 62, Bombay; PhD, 74, Konkan Agril Univ. Add off: Baghi Ali Mardan Khan, Naushera, Srinagar 190011; resi: Lalbag, Srinagar.

GHARDA, Dr Keki Hormusji: Chmn & Mg Dir, Gharda Chemicals Pvt Ltd; b 25 Sept 29. Ed: BSc, 48, Bombay; MS (Chem Engg), 52, PhD (Chem Engg), 58, Michigan, USA. Add off & resi: 48 Hill Rd, Bandra, Bombay 400050; Ph off: 532730, 546892; resi: 542173.

GHOSH, Dr Abhijit Narayan: Jt Commissioner (LP), Min of Agri, GOI; b Dec 30. Ed: BSc, 50, Patna; MSc, 59, PhD, 63, Univ of Saskatchewan, Canada. Add off: Dept of Agri & Cooperation, Krishi Bhavan, New Delhi 110001; resi: A-2739 Netaji Nagar, New Delhi 110023; Ph off: 384553; resi: 675690.

GHOSH, Biswabrata: Poul Consultant; b 8 Jan 46. Ed: MVSc. Add off & resi: 197/4 Kalyangarh, PO Kalyangarh, 24-Parganas 743272, West Bengal; Ph resi: Habra 180.

GHOSH, Goutam Narayan: Associate Editor, Indian Poultry Review, Calcutta; b 3 Sept 37. Ed: BCom, 59, Calcutta. Add: 57-B Townshend Rd, Calcutta 700025; Ph: 475366, 470838.

GHOSH, Tushar Kanti: Chief Production-cum-Quality Control Offr, HP Agro Industries Corpn, Cattle & Poul Feed Plant; b 25 Jan 36. Ed: BVSc & AH, Calcutta, 59; NDPH, 60, PGT Nutrition & Mktg, IVRI; Feed Factory Mgmt, NDDB. Add: Parwanoo (near Kalka) 173220, Solan Dist, HP; Ph off: 219 (Parwanoo); resi: 213 (Parwanoo).

GILL, Dr Bakhshish Singh: Special Dir, Res (Vet & Anim Scs), PAU; b 21 Dec 25. Ed: MVSc, 54, Punjab; PhD, 66, Agra. Add off: PAU, Ludhiana 141004; resi: 6/4 PAU Campus, Ludhiana 141004.

GNAANAMANI, M R: Prof of Zoology, Vellalchamy Nadar Coll; b 16 Jan 45. Ed: MSc; M Phil. Add off: Nagamalai, Madurai 625019; resi: Plot No 114-B, Alwar Nagar Colony, Nagamalai, Madurai 625019.

GNANAOLIVU, James: Sr Mgr, Poul Operations, Deejay Group; b 1 May 49. Ed: BVSc, 71, Madras. Add off: 3rd Floor, St Patrick's Complex, Brigade Rd, Bangalore 560025; resi: No 6, 4th Cross St, Tatabad, Coimbatore 641012; Ph off: 562738, 562749.

GODREJ, Nadir B: Dir, Godrej Soaps Pvt Ltd; b 26 Aug 51. Ed: BS, MIT, 73, MS, Stanford, 74; MBA, Harvard, 76. Add off: Pirojsha Nagar, Eastern Express Highway, Vikhroli, Bombay 400079; resi: 40-D, B G Kher Marg, Bombay 400006; Ph off: 585641, 584461, 586861; resi: 8123711.

GOEL, Jagdish P: Prop, Feed Distributors & Aashish Farms; b 1 Sept 48. Ed: BA, 67. Add off: Manohar Lal Munshi Lal, Khari Baoli, Delhi 110006; resi: L Manohar Bldg, Ram Nagar, New Delhi 110055; Ph off: 256133; resi: 516123.

GOIL, Gokulchandra: Mg Partner, G C Goil & Sons, 54 Mittal Chambers, Nariman Point, Bombay 400021; Ph off: 2027480, 2023740, 2023610; resi: 8227171, 8220668.

GOPALA SWAMY, C: Jt Mg Dir, Vetcare Div of Tetragon Chemie Pvt Ltd. Add: 90, 3rd Cross, 2nd Main, Gangenahalli, Bangalore 560032; Ph: 365633, 369174.

GORHE, Dr Diwakar Shankar: Chief Exec, The Bharatiya Agro-Industries Foundation; b 16 June 29. Ed: BSc (Vet) Hons, 52, Bombay Vet Coll; DSc (Paris) Tres Honourable, 67, Paris Univ. Add off: BAIF-BRIAH, off Pune-Nagar Rd, Wagholi, Pune 412207; resi: 'Silver Rocks', 1105/9 Shivajinagar, Model Colony, Pune 411016; Ph off: 70408/9, 70459, 70859; resi: 54698.

GOVINDHARAJ, I R: Tech Adviser, Regal Hatcheries, Coimbatore; b 17 Dec 40. Ed: Dip in Textile Technology, 60. Add: 12/66 Idigarai Post, Coimbatore 641031; Ph off: 89-210.

GOYLE, Arun K: Dir, Essex Farms (P) Ltd; b 25 Dec 44. Ed: BSc, 65; Dip in Food Technology, 67, CFTRI. Add off: 4 Aurobindo Marg, New Delhi 110016; resi: 32 Sri Ram Rd, Civil Lines, Delhi 110006; Ph off: 653537; resi: 237832.

GREWAL, Ajit Singh: Retd Dir of AH, Haryana; b 1 June 27. Ed: BVSc, 49, MVSc, 62, Punjab. Add off: SCO 80-81, Sector 17-C, Chandigarh 160017; Ph off: 24735; resi: 24165.

GREWAL, Dr R S: Dir, AH Dept, Punjab. Add off: SCO No 6-7, Vinod Bldg, Sector 17-B, Chandigarh 160017; Ph off: 24409; resi: 25084.

GUHA, Hemendu: Dir of AH, West Bengal; b 1 July 30. Ed: MS (Dairy Husbandry), 63, Kansas State Univ, USA. Add off: Writers' Bldgs, Block 'F', 4th Floor, Calcutta 700001; resi: G-1 Moore Avenue Housing Estate, Tollygunge, Calcutta 700040;

Ph off: 221681 Ext 244.

GUMLEY, George Daniel: Administrative Mgr, Asian Agro Farms India Ltd, Poona; b 30 Sept 46. Ed: MCom, 68, Poona. Add: 212/213 Parmar Chambers, 3/4 B J Rd, Sadhu Vashwani Circle, Pune 411001; resi: 4/4 Indurlok Apartments, Tadiwala Rd, Poona 411001; Ph off: 65987; resi: 66904.

GUNJIKAR, Narayan Vishwanath: Mg Dir, Ar-Ex Laboratories Pvt Ltd; b 25 Sept 29. Ed: BSc (Hons), 50, Poona; BSc (Tech), 52, Bombay. Add off: 21 Sitaladevi Temple Rd, Bombay 400016; resi: 29 Konkan Nagar, Mahim, Bombay 400016; Ph off: 457685; resi: 453576.

GUPTA, Chaman Lal: Gen Mgr, Hafed Cattle Feed Plant; b 14 Apr 44. Ed: BE (Mech), 67, Varanasi. Add: Jind 126102, Haryana; Ph off: 259; resi: 466.

GUPTA, Kamlesh: Gen Mgr (Agro-Poul Div), Taj Services Ltd. Add off: c/o Taj Palace Hotel, Sardar Patel Marg, New Delhi 110021; resi: 6/53 WEA Karol Bagh, New Delhi 110005; Ph farm: 3 (Tauru, via Gurgaon); resi: 5729406.

GUPTA, M K: Mg Dir, Domesto (P) Ltd. Add off: Maruthinagar, Vijayawada 520004; Ph: 636884.

GUPTA, Sarojendu: Addl Dir of AH (SAHP), West Bengal; b 1 Apr 32. Ed: GVSc, 50, Calcutta; ACPH, 55, IVRI; Postgraduate Trg in Poul Husbandry & Pathology, 59, Australia. Add off: Writers' Bldg, F-Block, 4th Floor, Calcutta 700001; resi: Flat No S4/6 FC Block, Sector III, Bidhan Nagar, Calcutta 700091; Ph off: 221681.

GUPTA, Subhash: Prop, Shri Bhagwati General Mills; b 29 Sept 40. Ed: FA, 56, Kashmir. Add off: Purani Mandi, Jammu; resi: 'Panchvati', P-58/59, Sarwal Colony, Jammu 180005; Ph off: 5862, 46910.

GUPTA, T V L S: Asst Dir (AH), Feeds & Fodder; b 29 July 38. Ed: BVSc, 60, Madras; Course in Poul Production, 75, AP Agril Univ; National Dip in Fodder Production & Utilization, 84-85, Indian Grassland & Fodder Res Inst, Jhansi. Add off: Large Scale Sheep Breeding Farm, Mamidipally, Hyderabad 500005; resi: 30/3 R T Vijayanagar Colony, Hyderabad 500457; Ph off: 49155.

GURDIP SINGH: Mg Dir, Hi-Bred (India) Pvt Ltd; b 11 Aug 36. Ed: BSc (Agri), 59. Add: Post Box No 20, Karnal 132001, Haryana; resi: S-260 Panch Shila Park, New Delhi 110017; Ph: 650697 (New Delhi); resi: 2287 (Karnal).

H

HALDER, Dr Basana Ranjan: Dir, Inst of Farm Management, Rani; b 1 Mar 30. Ed: GVSc, 51, Bengal Vet Coll; PG, 58, IVRI; FRVCS, 66, Stockholm. Add off: PO Rani 781132, Kamrup, Assam; resi: PO Gopinathnagar 781016, Guwahati.

HALDIPUR, Ramdas Narayan: Dir, Inst of Rural Management, Anand; b 8 Feb 21. Ed: MA, 44, Bombay; MA, 49, Columbia, USA. Add off: PB No 60, Anand 388001; resi: DX-3, NDDB Campus, Anand 388001; Ph off: 3100, 3101; resi: 3117.

HAMID, Ibrahim Abdulhamid: Sr Partner, Abdul Hamid Ahmed & Co; b 13 Nov 24. Add: Arab Bldg, 1st Floor, opp Sewri Rly Station, Sewri Cross Rd, Bombay 400015; Ph off: 8822964, 8827572; resi: 8825339, 8827313.

HANDA, Raj Kumar: Sr Vice-Pres, Asian Agro Farms India Ltd; b 11 Nov 42. Ed: BSc, 59, Bombay; BE (Mech), 64, Bombay; MMS, 69, Iowa State Univ, USA. Add off: 212/213 Parmar Chambers, 3/4 B J Rd, Sadhu Vashwani Circle, Pune 411001; PB No 81, GPO, Pune 411001; resi: S No 2/2 PO Ganeshkhind, Aundh, Pune 411007; Ph off: 65987, 64487; farm: 255 & 254; resi: 58099.

HARBANS SINGH: Mg Partner, H S Poul Farm; b 30 Aug 30. Add Farm: Near Bara Talab, Kartarpur, Jalandhar Dist, Punjab; Ph: 48.

HARBANS SINGH: Mg Dir, Singh Poultry Pvt Ltd. Add off: PB 103, Unity House, 250-57/31-34C (2nd Floor), Abid Rd, Hyderabad 500001; Ph off: 34253, 35954, 224324; resi: 223139.

HARBANS SINGH: Gen Mgr (East), VHPL, Pune; Gen Mgr, Contai Golden Hatcheries (E) Pvt Ltd; Ed: BSc, BHU. Add off: 8/4B Dr Sundari Mohan Avenue, Calcutta 700014; resi: 15 Sarat Chatterjee Avenue, Flat No 11, Calcutta 700029; Ph off: 297019; resi: 462809.

HARPAL SINGH, Dr: Dir, Central Poultry Breeding Farm, GOI, Chandigarh; b 8 May 49. Ed: BSc (Agri), 70, MSc, 72, PhD, 76, PAU, Ludhiana; PhD, 82, Iowa State, USA. Add off: Central Poultry Breeding Farm, Industrial Area, Chandigarh 160002; Ph off: 24461, 41491.

HUSAIN, Dr Khwaja Qaisar: Prof & Head, Anim Sc, Narendra Dev Univ of Agri & Technology; b 15 Oct 35. Ed: BSc (Biology), 52, Lucknow; BVSc & AH, 56; MVSc (AH), 60, Agra; PhD (Anim Genetics & Breeding), 73. Add off: Kumarganj 224229, Faisabad Dist.

HUSSAIN, S Raunaq: Dir of AH & Vet Services, Andaman & Nicobar; b 17 Sept 32. Ed: GVSc. Add off: Port Blair 744101; resi: South Point, Port Blair; Ph off: 2326; resi: 2612.

I

ICHHPONANI, Dr Jagmohan Singh: Prof-cum-Head, Dept of Anim Scs, PAU; b 11 Nov 37. Ed: PhD, 66, Punjab; Post Doctorate, 64-68, USA. Add off: PAU, Ludhiana; resi: K-56 Sarabhanagar, Ludhiana; Ph off: 22960 Ext 307; resi: 25608.

IMTHIAZ, Soorali Ahamed: Prop, A-1 Flakes Industry, & Partner, Happy Hen's Farm; b 25 July 53. Ed: BE, 76, Mysore. Add: No 5, 5th Main, Paramahamsa Rd, Yadavagiri, Mysore 570020; Ph: 25449.

INDER SINGH: Incubator Manufacturer; Age: 60 years. Add off: Gurdaspur Engg Works, Coop Indl Soc Ltd, G T Rd, Gurdaspur; resi: 212 Bank of Baroda St, Gurdaspur.

IQBALUDDIN, Dr: Dep Commissr (Rural Dev), Min of RD, GOI; b Apr 43. Ed: BVSc & AH, 64, Agra; MVSc, 68, Agra; PhD, 72, Pantnagar. Add off: 534 Krishi Bhawan, New Delhi 110001; resi: D/11B Officers Flat, Mayapuri, New Delhi 110064; Ph off: 623846.

J

JADHAV, Dr Dasharath S: Retd Dean, Bombay Vet Coll; b 1 Oct 27. Ed: BSc (Vet) Hons, 55, Bombay; MS, PhD, 63, Minnesota, USA. Add off: Parel, Bombay 400012; Ph: 440162.

JADHAV, Mrs R A: Mg Dir, Mafco Ltd. Add off: Mistry Bhavan, 6th Floor, Dinshaw Vachha Rd, Bombay 400020; Ph off:222244, 220443; resi: 2026158, 2025076.

JAGANMOHAN, S R: Mgr, Agrovet, Hoechst India Ltd; b 23 Jan 39. Ed: BSc (Hons) (Chem), 59, Madras. Add off: PO Box 11123, Hoechst House, Nariman Point, Bombay 400021; resi: 145 Nibbana,Pali Hill, Bandra, Bombay 400050; Ph off: 232366, 230607.

JAGAPATI RAO, Chitturi: Dir, Venkateshwara Hatcheries Pvt Ltd & Mg Dir, Srinivasa Hatcheries Pvt Ltd; b 15 Apr 33. Ed: MA, 59. Add off: 3B Subhodaya Apartments, 4-1-1233 Bogulkunta, Hyderabad 500001; resi: 7H Subhodaya Apartments, 4-1-1233 Bogulkunta, Hyderabad 500001; Ph off: 237254-5, 236424; resi: 226116, 226224.

JAIN, Davish: Mg Dir & Export Exec, Prestige Feed Mills Pvt Ltd. Add off: 30 Jaora Compound, M Y H Rd, Indore 452001; Ph off: 21725, 4633, 34014; resi: 22013, 4891.

JAIN, Dr Genda Lal: Chief Geneticist, VHPL Group Breeding Research Projects; b 29 Feb 40. Ed: BSc (Agri), 62, Udaipur; MSc (Poul Sc), 66, PAU; PhD, 71, UBC, Canada. Add off: Pune 411025; Ph off: 442244; resi: 470735.

JAIN, N N: Chmn & Mg Dir, Prestige Foods Limited; b 17 Sept 31. Add off & resi: 32, II-C, New Palasia, Indore 452001; Ph: 21725, 4633, 7225.

JAIN, Omprakash: Mgr, Pradeep Wire Industries. Add: D64/29, K-4-1, Bank Colony, Sigra, Varanasi 221010; Ph: 54027.

JAIRATH, Ashok Kumar: Mg Dir, Rakshak Farm Aids Pvt Ltd; b 27 Sept 47. Ed: BSc, 67, Delhi. Add off & resi: 1-11-222/6 Begumpet, Hyderabad 500016; Ph off & resi: 822495, 823081.

JALAL AHMAD, Syed: Poul Dev Offr, Dept of AH, Bihar; b 15 Oct 36. Add off: Central Poul Farm, Anisabad, Patna 800002; resi: Phulwari Sharif, Patna; Ph off: 23776; farm: 25396.

JAMAL AKHTER: Partner, Paper World Industries, 13/3D Patwar Bagan Lane, (near Rajabazar), Calcutta 700009; Ph: 35-8720.

JAMKHEDKAR, Dr Prabhakar Prahlad: Vet Service Mgr, Pfizer Ltd; b 10 Oct 32. Ed: BSc Vet (Hons), MVSc, PhD, 84. Add off: PB No 667, Express Towers, 22nd Floor, Nariman Point, Bombay 400021; resi: DI-80, Block No 796 Gandhinagar (MIG Colony), Bandra East, Bombay 400051; Ph off: 2022824; resi: 6422629.

JHALA, Dr Vanrajsinh Mulubha: Principal, Coll of Vet Sc & AH, Sardar Krishinagar; b 28 Jan 31. Ed: BVSc & AH, 58, Bombay; DTVM, 64, Edinburgh, UK; PhD, 72, Sardar Patel Univ, Gujarat. Add off: PO Sardar Krishinagar 385506, Dist Banaskantha; resi: A/5 Univ Staff Qrs, Gujarat Agril Univ, Dantiwada, Dist Banaskantha; Ph off: 39 & 87; resi: 37; farm: 28.

JOHARI, Dr Dinesh Chandra: Sr Scientist, CARI; b 12 July 39. Ed: BVSc & AH, 62, Agra; MVSc, 65, Agra; PhD, 75, Agra. Add off: IVRI Campus, Izatnagar 243122; resi: 39-E Model Town, Bareilly, UP; Ph off: 74095.

JOHRI, Dr Tripurari Sahai: Scientist, Dept of Avian Nutrition and Biochemistry, CARI; b 3 July 45. Ed: BVSc & AH, 66; MVSc (Poul Husbandry), 68, Pantnagar, UP;

PhD (Poul Science), 81, Agra, UP. Add off: IVRI Campus, Izatnagar 243122, UP; resi: Shiv Kuti, Prem Nagar Line Par, Izatnagar 243122; Ph: 74332.

JOSEPH, P O: Asst Dir (AH), Lakshadweep; b 16 Oct 37. Ed: BVSc. Add off: Kavaratty 673555; resi: Govt Qrs C-7, Kavaratty 673555; Ph off: 68; resi: 93.

JOSHI, Bhimsen Vasudev: Mgr, Anim Feeds Plant, The Tata Oil Mills Co Ltd, Bangalore; b 28 Feb 43. Ed: BVSc, 66, MVSc (Nutrition),69. Add off: 10th Mile, Tumkur Rd, Bangalore 560073; Ph off: 385673; resi: 350213.

JOSHI, Dr Harish Chandra: Prof & Head, Vet Med, G B Pant Univ of Agri & Technology; b 3 July 34. Ed: BVSc & AH, 60, Agra; MS, 62, Michigan; PhD, 69, Illinois, USA. Add off: Dept of Med, Coll of Vet Sc, Pantnagar 263145, Nainital Dist, UP; resi: I/102 Pantnagar; Ph off: 622; resi: 47.

JOSHI, Dr Hira Ballabh: Head (Livestock Products Technology), CARI; b 24 Jan 34. Ed: BSc, 54, Agra; BVSc & AH, 58, Agra; MVSc, 60, Agra; PhD, 73, Agra. Add off: IVRI Campus, Izatnagar 243122; resi: A-6/13, IVRI, Izatnagar.

JOSHI, Shankar Ramachandra: Supdt, Random Sample Test Unit, GOI, Southern Region, Bangalore. Ed: BVSc, Bombay; NDPH, IVRI; MVSc. Add off: GOI Poultry Complex, Hessarghatta, Bangalore 560088; Ph off: c/o 384303(Bangalore), 41 (HGT).

JUNEJA, Amar Nath: Pres, All India Poultry Farmers' Welfare Association; Pres, Delhi Poultry Association; Prop, Modern Feed Mills; b 7 June 43. Add Fact: 89 Vill Chattarpur, Mehrauli, New Delhi 110030; resi: DLF Area, Vill Chattarpur, Mehrauli, New Delhi 110030; Ph fact: 667292, 664992; resi: 653436, 663868.

K

KABAL SINGH: Partner, Dayal Poul Appliances; b 1918. Add off: WZ-16, Lajwanti Garden, New Jail Rd, New Delhi 110046; factory: C-160 Mayapuri Industrial Area, Phase II, New Delhi 110027; Ph off: 552081; fact: 590393.

KADIRVEL, Dr Ramaswamy: Prof & Head, Dept of Anim Nutrition, Madras Vet Coll; b 9 Jan 42. Ed: BVSc, 62, Madras; MVSc, 66, Madras; PhD, 72, California (Davis); Post Doctoral, Alberta. Add off: Madras 600007; resi: Plot 4933, 4th St (AC-26), "P" Block, Anna Nagar, Madras 600040; Ph off: 31506 Ext 10; resi: 614140.

KAJI, Dinesh C: Mg Dir, Ashok Kumar Hatcheries Pvt Ltd; b 19 July 36. Ed: BCom; Associate, Inst of Chartered Accountants of India; Associate Member of Institute of Company Secretaries of India. Add off: At & Vill Lakhampur, Tq Dindori, Nasik Dist, Maharashtra; Ph off: 55 (Dandori Ext, Nasik); resi: 365863 (Bombay).

KAKATI, Gopal Chandra: Dir, AH & Vet, Arunachal Pradesh; b 29 Mar 30. Ed: GVSc & AH, 51, Guwahati; NDAH, 68, IVRI. Add off: Nirjuli, Naharlagan 791110; resi: Nirjuli; Ph off: 303; resi: 231.

KAKDE, Ramchandra Dattuji: Jt Dir of Vet Services, MP; b 1 June 33. Ed: BVSc, 57, Jabalpur; NDPH, 64, IVRI. Add: Ujjain Div, Ujjain 456001; Ph off: 4673; resi: 3383.

KALLA, Roop Raj: Jt Dir (Proj), AH Dept, Rajasthan; b 12 Dec 29. Ed: GBVC, 51, Patna. Add off: Dairy Complex, Jaipur; resi: II/34 Gandhinagar, Jaipur; Ph off: 77984; resi: 60013.

KALRA, Surjit Singh: Mg Dir, Kalra Consultants Pvt Ltd; b 25 Oct 34. Ed: IRSE, 57, UPSC. Add off & resi: W-2 Greater Kailash-I, New Delhi 110048; Ph: 6412493.

KALYANA SUNDARAM, C K: Mgr (Feed & Technical), Tamil Nadu Poul Dev Corpn Ltd; b 21 June 32. Ed: BVSc, 56, MVSc, 73, Madras. Add off: 561 Anna Salai, Madras 600018; resi: Q. 59, A A Nagar, Madras 600040; Ph off: 443164.

KANCHAN, Mohan Lal: Mktg Mgr, Agril Div, Pfizer Ltd; b 20 Jan 39. Ed: BSc, 56, BVSc & AH, 61, Agra. Add off: Express Towers, Nariman Point, Bombay 400021; resi: Flat 24, Sheesh Mahal, D'Monte Park Rd, Pali Hill, Bombay; Ph off: 2022824; resi: 538913.

KANDASAMY, K: Prop, Selvi Feeds; b 3 Mar 49. Ed: BCom, 74, Madurai. Add off: Gounder Traders, 6 Anna Salai, Rasipuram 637408; resi: Near Power House, Namakkal Rd, Rasipuram; Ph off: 531.

KANHAR, Anand Charan:Dir I/c, Central Poul Breeding Farm, GOI, Bombay; b 19 Jan 39. Ed: BVSc & AH, 69, OUAT, Bhubaneswar. Add off: Aarey Milk Colony, Bombay 400065; resi: CPBF Campus, Bombay; Ph off: 692515.

KAPTHUAMA, Dr Ralte: Dir, AH & Vet, Mizoram; b 1 Mar 36. Ed: BVSc & AH, 58; GVSc, 58, Guwahati;PhD, 68, London; Specialization in production, breeding and genetics. Add off: Aizawl 796001; resi: Vet Qr,

Republic Veng, Aizawl; Ph off: 451; resi: 468.

KAPUR, N C: Prop, Kapur Enterprises; b 2 Feb 28, Ed: BA, Punjab; LLB, Delhi; Sahitya Rattan, Allahabad; CAIIB, Bombay; LSGD, Bombay. Add off: 10-A, Rampura Marg Industrial Area, New Delhi 110035; Ph resi: 7125959, 653493 (Chattarpur Unit), 806-453 (Najafgarh Unit); resi: 7113927.

KAPUR, Promod: Vice-Pres, Dakshin Kegg Pvt Ltd; b 21 Feb 36. Ed: Intermediate (Sc), Punjab Univ; Graduated from Ind Military Academy, 57. Add off: Vimala Bldg, 5 Residency Rd, Bangalore 560025; resi: 144, Block 5th, Koramangala Layout, Bangalore; Ph off: 561074; farm: 41, 39 & 34 (Kalamangalam); resi: 55015.

KAPUR, Shashi: Dir (Mktg),Kegg Farms Pvt Ltd, & Mg Dir, Dakshin Kegg Pvt Ltd; b 1 Dec 47. Ed: BA, 67, Punjab. Add off: Eros Apartments, 56 Nehru Place, New Delhi 110019; resi: S-231 Panchshila Park, New Delhi 110017; Ph off: 6432011, 6431642; resi: 653491.

KAPUR, Vinod S: Pres, Kegg Farms Pvt Ltd; Chmn, Dakshin Kegg Pvt Ltd; b 20 July 34. Ed: BA (Hons), 52, Pb; DLC Engg Hons (UK), 56. Add off: Eros Apartments, 56, Nehru Place, New Delhi 110019; resi: N-132B Panchshila Park, New Delhi -17; Ph off:6432011,6431642;resi:6436932,6437110.

KAREKAR, V S: Partner, Kwality Agro-Vet Industries, Salem; Medivet Laboratories, Hyderabad; Pharmavet Industries, Vapi; Kwality Chemical Industries, Miraj; Paushtik Foods & Feeds, Thane; b 5 Aug 47. Ed: BSc, 68. Add off: PB No 29, Thane 400601; RH-1, C-18, Sector-8, Vashi, New Bombay 400703; resi: E11/2/3 Sector-1, Vashi, New Bombay 400703; Ph: 8390 & 7102 (Vashi).

KARTHIKEYAN, S: Dir, SKM Farm Engineering Pvt Ltd; b 3 May 60. Add off: Chavadipalayam Pudur Rd, Nanjaiuthukuli, Modakkurichi 638104, Periyar Dist, TN; resi: Kaspapasur, Pasur 638154, Periyar Dist; Ph: 4665 (Pasur).

KATE, Anand S: Sr Div Mgr (Exports), Mafco Ltd; b 5 Oct 49. Ed: BSc, Postgraduate Dip in Business Management. Add off: Mistry Bhavan, Dinshaw Vachha Rd, Bombay 400020; resi: 20, 'Saket', opp Podar Ayurvedic Hospital, Dr Annie Besant Rd, Worli, Bombay 400025; Ph off: 222244; resi: 4932538.

KATYAL, Harinder: Partner, Universal Poultry Breeding Farm. Add off: 1/2780 Kashmere Gate, Delhi 110006; resi: 21 Bungalow Rd, Delhi 110007; Ph off: 2522263, 2522264; resi: 225252.

KATYAL, Virender: Partner, Universal Poultry Breeding Farm (Unichix). Add off: 1/2780 Kashmere Gate, Delhi 110006; resi: 21 Bungalow Rd,Delhi 110007; Ph off: 2522263, 2522264; resi: 225252.

KAUL, Jawahar Lal: Gen Mgr (Mktg), Asian Agro Farms India Ltd; b 16 Aug 36. Ed: BA, Dip in Materials Management. Add off: 6 Community Centre, East of Kailash, New Delhi 110065; Ph off: 6432994-95.

KAUSHIK, Dr Ravindra Kumar: Prof & Head, HAU, Hissar; b 12 Dec 35. Ed: BVSc & AH, 60; MVSc (Pathology), 65; PhD (Pathology), 70, Agra. Add off: Dept of Vet Public Health & Epidemiology, HAU, Hissar; resi: D-2 Married Flats, HAU, Hissar; Ph off: 4602.

KELKAR, Vasant Diwakar: Partner, Pashu Pakshi Aushadhalaya; b 16 May 28. Add: 693 Budhwar Peth, Pune 411002; Ph: 446616, 448617.

KESHAVAMURTHY, Dr B S: Dir, Inst of Anim Health & Veterinary Biologicals; b 9 Oct 28. Ed: BSc, 49, Mysore; BVSc, 53, Madras; PG (BP), 58, IVRI; MS, 68; PhD, 70, Univ of Florida, USA. Add off: Hebbal, Bangalore 560024; Ph off: 361502; resi: 360230.

KEWALRAMANI, M: Sec, Rajasthan Poul Fedn, & Prop, Kewalramani Hatcheries. Add: Pushkar Rd, Ajmer 305001; Ph: 21034.

KHAGRAM, Chandrakant L: Mg Dir, Evergreen Wirecloth Factory Pvt Ltd; b 17 Apr 31. Ed: FYA, Bombay. Add off: 3D Maker Bhavan No 2, 18 New Marine Lines, Bombay 400020; resi: 11 Swadhin-Sadan, "C" Rd, Churchgate, Bombay 400020; Ph off: 312461; resi: 297123.

KHAN, Dr Abdul Gaffar: Prof & Sr Scientist, Head, Dept of Poul Sc, Coll of Vet Sc & AH, JNKVV & Sec, WPSA (Indian Branch); b 12 Feb 36. Ed: BVSc, 56, MVSc, 66, PhD, 72, USA. Add off: Krishinagar, Adhartal, Jabalpur 482004; resi: E/5 Krishinagar Colony, Jabalpur 482004; Ph: 23771-3.

KHAN, M S: AH-cum-Vet Offr, Dadra and Nagar Haveli. Add: Silvassa 396230; Ph off:216.

KHANNA, Vinod: Prop, Vintar Poulets-Egg-Spurts; b 21 Sept 47. Ed: Specialization in chick sexing, Japan. Add: Krishnapura House, Panipat 132103, Haryana; Ph off: 2113; resi: 2965.

KHANNA, Vir: Mg Partner, Punjab Bone Mills; b 2 Dec 30. Ed: BA, Punjab. Add off & resi: 524 New Jawahar Nagar, Jalandhar 144001; Ph off & resi: 74058.

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KHER, Roshan Lal: Head, Div of Biological Products, IVRI; b 15 Feb 29. Ed: BSc, 47, MVSc, 62, Punjab Univ; PG Anim Health, 63, Japan. Add off: Indian Vet Res Inst, Izatnagar 243122, UP; Ph off: 74008; resi: 76864.

KHINDARIA, D P:Vice-Pres (Operations), KAFCO; b 14 Nov 24. Add off: M-19 Greater Kailash-II (Mkt), New Delhi 110048; resi: 9/4 Kalkaji Ext, New Delhi 110019; Ph off: 6431248; resi: 6437873.

KHORAKHIWALA, Habil Fakhruddin: Mg Dir, Wockhardt Veterinary Pvt Ltd; b 22 Sept 42. Ed: MS (Industrial Pharmacy), USA. Add off: Poonam Chambers, Dr A B Rd, Worli, Bombay 400018; resi: Maker Tower B, Flat 42, Cuffe Parade, Bombay 400005; Ph off: 4928526, 4928775; resi: 215969.

KHORAKIWALA, Huseini Taherbhoy: Chmn, Poultry & Allied Products Co Pvt Ltd, Vice-Pres, Akbarallys Dept Store, & Chief Exec, Mcnginis & Dir, Wockhardt Pvt Ltd; b 27 Apr 27. Ed: BSc, 50, Dip in Pharmacy, 54. Add off: 38C, Cawasji Patel St, Fort, Bombay 400023; resi: 32 Bennet Villa, 29 Best Marg, Ccoperage, Bombay 400039; Ph off: 253231; resi: 241745.

KHORAKIWALA, Shaikh Shafaqathusain Shaikh Taherbhai: Chief Exec, Akbarallys Pharma-Vet Div; b 20 Jan 20. Ed: Matriculate. Add off: 2/1 Homji St, Fort, Bombay 400001; resi: 42/132 Cuffe Parade, Bombay 400005; Ph off: 256737, 311304; resi: 216102.

KHOT, Dr Jayakumar Bapusaeb: Prof, Food Hygiene & Public Health, Bombay Vet Coll; b 3 Apr 32. Ed: BSc (Vet) Hons, 57, Bombay; MVSc, 68, Bombay; FRVAC, 71, Denmark; PhD, 79. Add off: Parel, Bombay 400012; resi: Prcfessors Qtrs, Bombay Vet Coll, Bombay 400012; Ph off: 441180, 447033; resi: 442793.

KHURANA, Om Prakash: Dir (Feeds), Singh Poultry Pvt Ltd; b 3 Mar 40. Ed: BCom (Hons), 60; BL, 62, Rangoon Univ. Add off: PB No 103, IInd Floor, Unity House, Abid Rd, Hyderabad 500001; resi: Plot No 96, Sri Nagar Colony, Hyderabad 500873; Ph off: 34253, 35954, 224324; resi: 225111.

KHURANA, R P: Partner, Piya Pharmaceutical Works. Add off: c/o Khurana Medicos, Bhagirath Palace, Delhi 110006; factory: Mohan Nagar, Ghaziabad, UP; Ph off: 234696; factory: 866782, 866660; resi: 5723562, 5716113.

KIKANI, Nalinchandra Jayendrarai: Mktg Controller, Sarabhai M Chemicals; b 14 Oct 31. Ed: BSc (Hons), 53, MSc, 55,Gujarat Univ. Add off: Gorwa Rd, Baroda 390007; resi: 'Abhilash', Behind Ellora Park, Race Course Rd, Baroda 390007; Ph off: 82821 (5 lines); resi: 83232.

KIRLOSKAR, Dattatraya Shripad, Lt Col (retd): Prop, Col Kirloskar's Poul Farm; b 19 Nov 22. Add off: Model Garage, Karve Rd, Pune 411004; resi: 826, Sindhi Cooperative Housing Society, Aundh, Pune 411007; Ph off: 58913; resi: 54535.

KIRLOSKAR, Mohan Shripad: Supdt, Random Sample Test Unit, GOI, Bhubaneswar; b 8 Sept 30. Ed: BSc (Hons), 52, CDP, NDPH, 58, UK, DBM, 77, Pune. Add off: c/o Central Poultry Breeding Farm, Bhubaneswar 751013; Ph: 51875.

KISHORE, Rameshwar: Gen Mgr (Sales), Asian Agro Farms India Ltd; b 2 Oct 37. Ed: BVSc & AH, 59, Bihar; Dip in Poul Husbandry, 67, England; NDP, 67, England. Add off: 212/213 Parmar Chambers, 3/4 B J Rd, Sadhu Vashvani Circle, Pune 411001; PB No 81, GPO, Pune 411001; resi: Sri Arihant Coop Housing Soc Ltd, Bldg 'C', Flat T-3, 469/A Salsbury Park, Pune 411001; Ph off: 65987.

KOCHHAR, Bhagwant Singh: Prop, Assam Poultry Farm; b 20 July 28. Add: Udyognagar Makun Rd, Tinsukia 786125; Ph: 694.

KONNOTH, Joseph John: Consultant, Konnoth Consultancy Services; b 29 July 25. Ed: BSc, 45, Madras; PG Dip in Pharmaceuticals. Add: 60 Tara Kunj, Sindhi Society, Chembur, Bombay 400071; Ph off & resi: 525805.

KOTAIAH, Talpaneni: Geneticist, Kasila Farms; b 14 July 48. Ed: BVSc, 70, Tirupati;MVSc, 72, IVRI, High-level Inservice Trg in Poul Breeding, 75, Hessarghatta, Bangalore. Add off: 902, Paigah Plaza, Basheer Bagh, Hyderabad 500029; Ph: 223551/2.

KOTESWARA RAO, G: Mg Dir, Koteswara Hatcheries Pvt Ltd. Add: 4-A/XXV Ward, Cantonment, Bellary; Ph off: 2705; resi: 2801.

KOTHANDARAMAN, Dr Poonamallee: Dean, Madras Vet Coll; b 15 Jan 30. Add off: Vepery, Madras 600007; resi: No 1 Swaminatha Gramani Lane, Periamet, Madras 600003; Ph off: 31506.

KRISHNA MURTY, Manda: Mg Partner, Egg Bank, & Jt Sec, AP Poul Farmers Fedn; b 10 Sept 45. Ed: LCE. Add off: 5-9-36 Basheer Bagh, Hyderabad 500029; resi: 5-9-22/13 Adarsh Nagar, Hyderabad; Ph off: 220315; resi: 220336.

KRISHNA RAO, Dr Chittajallu: Ex-Chmn & Mg Dir, Andhra Pradesh Meat & Poultry Dev Corpn & Ex-Anim Husbandry Commissioner, Govt of India; Ex-VC, AP Agri Univ; b 13 July 20. Ed: GMVC, 42; BVSc, 43; MS,

47; PhD, 54. Add resi: 10-2-289/39 Shantinagar, Hyderabad 500028; Ph: 224104.

KSHIRSAGAR, Shriram Narhar: Ops Mgr, Rajdhani Farms; b 26 Jan 52. Ed: BVSc & AH, 74, Bombay. Add off & resi: Vill & PO Larsauli, Dist Sonepat, Haryana; Ph: 17 (Ganaur Exch).

KULDEEP SINGH, Shyam: Chief Exec, Delhi Operations, Venkateshwara Hatcheries Pvt Ltd. Add off: 1797 Kotla Mubarakpur, New Delhi 110024; resi: B-40 Greater Kailash I, Bhatia Apartments, 2nd Floor, New Delhi 110048; Ph off: 698178; resi: 6410940.

KULKARNI, G P: Product Mgr, Anim Health Care Div, M J Pharmaceuticals Ltd; b 7 Jan 60. Ed: MVSc, 85, Konkan Krishi Vidyapeeth. Add off: 126 Jolly Maker Chambers No 2, Nariman Point, Bombay 400021; resi: 17/531 Shastri Nagar, Goregaon (W), Bombay 400104; Ph off: 2027311, 2020644.

KULKARNI, Madhav Venkatesh: Poul Consultant; b 2 May 23. Ed: BSc (Vet), 50, Bombay; NDAH, 62; Dip AH, 67, Sydney, Australia. Add resi: 4/265, Bharat, Sion Matunga Estate, Bombay 400022; Ph resi: 475001.

KULKARNI, Ramesh Digamber: Asst Dir (Poul), Maharashtra; b 9 Jan 39. Ed: BVSc, 62, MVSc (Poul Sc), 83, Bombay. Add off: Dte of AH, Central Bldg, Pune 411001; resi: Bungalow No 11, Sheep Breeding Farm, Pune 411001; Ph off: 62381, 62382.

KULKARNI, Ravindra Trymbak: Officiating Head, Livestock Dept, Livestock Specialist, Action for Food Production (AFPRO); b 6 Apr 49. Ed: BVSc & AH, 72, MPKV, Rahuri. Add off: 25-1A, Institutional Area, Pankha Rd, D-Block, Janakpuri, New Delhi 110058; resi: C-1/7 Janakpuri, New Delhi 110058; Ph off: 552017,552018.

KUMAR, Dr Jitendra: Associate Prof of Anim Breeding (Poul), HAU; b 15 Nov 39. Ed: BVSc & AH, 62, MVSc, 65, Agra; PhD, 73, Hissar. Add off: Coll of Anim Scs, Hissar 125004; resi: 10/32 HAU, Hissar; Ph off: 3721 Ext 262.

KUMARASWAMY, Dr A: Dep Dir (Poul), Dte of AH & Vet Services, Karnataka; b 13 May 37. Ed: BVSc, 63, Mysore Univ; NDPH, 72, IVRI; PG, 74, Australia. Add off: IInd Floor, Multistoreyed Bldg, Dr B R Ambedkar Rd, Vidhana Veedhi, Bangalore 560001; resi: Sri Ganesha Nilaya, Konappana Agrahara, Hosur Rd, Bangalore 560068; Ph off: 72882; resi: 212 (Hebbagoli Ex).

KUNDU, Dr Phani Bhusan: Dir of Vet Services, W Bengal, & Mg Dir, West Bengal Livestock Processing Dev Corpn; b 1 Sept 34. Ed: MRCVS, London; PG, East Germany; PhD. Add off: New Sectt Bldgs (3rd Floor), 1 K S Roy Rd, Calcutta 700001; resi: 49 S P Mukherjee Rd, Calcutta 700028; Ph off: 235545; resi: 574383.

KUNZRU, Dr Omkar N: Head, Div of Extn, IVRI; b 30 Sept 36. Ed: BSc, 55, Raj Univ; BVSc & AH, 60, Raj Univ; MS, 63, Michigan State Univ, USA; PhD (Extn Ed), 71, Ohio State Univ, USA. Add: IVRI, Izatnagar 243122; Ph off: 74391; resi: 72859.

KUPPUSAMY, Dr M: Director, Sanchi Agvet Research Private Limited; Delhi off: 301-302 Rattan Jyoti, 18 Rajendra Place, New Delhi 110001; Ph: 5726098.

KUSHWAHA, Dr Nathu Singh: Dean, Coll of Agri, C S Azad Univ of Agri & Technology, Kanpur; b 1 Aug 25. Ed: BSc (Agri), 48, Agra; Associate, 50, IVRI; MS, 55, Colorado; PhD, 58, Washington, USA. Add off: Kanpur 208002; Ph off:44406;resi:43427.

KYADIGUPPI, Narsimha Ramachandra: Dep Dir (Poul & Piggery), Maharashtra; b 18 Feb 32. Ed: BSc (Vet), 55; NDPH, 66. Add off: Dept of Animal Husbandry, Central Bldg, Pune 411001; resi: 687, Sadashivpeth, near Chitroshala, Pune 411030; Ph off: 62382; resi: 444749 (PP).

L

LAJINDER SINGH: Dep Dir, ISI; b 3 Aug 41. Ed: BSc, 62, Delhi; AIC, 67, Calcutta. Add off: Manak Bhawan, 9 Bahadurshah Zafar Marg, New Delhi 110002; resi: C/66 Malviya Nagar, New Delhi 110017; Ph off: 266021, 270131; resi: 655660.

LAKSHMIAH, Ponnala: Chmn, Tirumala Hatcheries Pvt Ltd; b 15 Feb 44. Ed: BE (Mech), 68, Osmania; MS, 69, Oklahoma State Univ, USA. Add off: 2-2-87B, Kisharpura, Hanamkonda, Warangal 506001; resi: Srinivasa Apartments, Begumpet, Hyderabad; Ph off: 7764, 38577 (Hyd); farm: 20631; resi: 226067 (Hyd).

LAKSHMIPATHY, Burugapally: Exec Dir, Modern Roofings Ltd & Pulp n' Pack Pvt Ltd; b 25 Oct 36. Ed: MA, BEd. Add off: Modern Roofings Ltd, Tadimalla 534305, AP; resi: Patimeeda, Nidadavole 534303. Ph off: 31 (Tadimalla); resi: 155 (Nidadavole).

LALL, Jag Mohan: Consultant; b 7 July 22. Ed: LVP (Hons), 42, Lahore; Associate-

ship, 64, IVRI; FRVCS, 64, Sweden. Add: S-224, Greater Kailash-I, New Delhi 110048; Ph resi: 6410346.

LAROYA, Ravinder Kumar: Mg Dir, Vets Farma Pvt Ltd; b 6 Jan 48. Ed: MA. Add off: Mandi Fenton Ganj, Jalandhar City;resi: c/o Arjan Mal Jagan Nath, Mandi Fenton Ganj, Jalandhar; Ph off & resi: 72474.

LATHEY, Krishna Prakash: Regl Mgr, Pfizer Ltd (Agril Div); b 1 Sept 39. Ed: BSc, BVSc & AH. Add off: B-51 Okhla Industrial Area, Phase I, New Delhi 110020; resi: Flat No 34, DDA SFS Flats, near Yamuna Apartments, Kalkaji, New Delhi 110019; Ph off: 635587.

LEELAKRISHNAN, V: Mg Partner, Pioneer Hatcheries; b 1944. Ed: BSc, 64, Annamalai. Add: 7/67 Pongalur 638667, Coimbatore Dist; Ph off & resi: 25; farm:35.

LIMAYE, Prabhakar Dattatraya: Dep Dir, Vet Services (Poul Res), Bhopal; b 26 Jan 35. Ed: BVSc, 58, Osmania; MVSc, 65, Jabalpur. Add off: Govt Poul Farm, Bhopal 462003; resi: 85/28 Tulsinagar, Bhopal 462005; Ph off: 62229.

LIMAYE, Vaman Keshav: Mgr, Central Hatchery, Kolhapur; b 15 Sept 35. Ed: BSc (Vet), 57; NDPH, 66; Trg in Mktg, Grading & Processing of Poul, 61, Calcutta; Genetics & Breeding Courses, 75, Bangalore; Colombo Plan Trainee, 78, Australia. Add off: Central Hatchery, Kolhapur 416003; Ph off: 24729.

LOBO, David J: Mg Dir, Deejay Group; b 21 July 43. Ed: BA, 68, Karnataka Univ, Dharwar. Add off: 3rd Floor, St Patrick's Complex, Brigade Rd, Bangalore 560025; resi: 37 Residency Rd Cross, Bangalore 560025; Ph off: 562738,562749, 577514.

LOKESHWAR, Ramesh Ramachandra: Editor, Indian Journal of Animal Sciences, ICAR; b 10 July 37. Ed: MSc, 57, Bombay Univ. Add off: ICAR Bhavan, Dr K S Krishnan Marg, New Delhi 110012; resi: 52/22 Ramjas Rd, Dev Nagar, New Delhi 110005; Ph off: 5721004.

M

MADHU, K: Prop, S R Steel Industries. Add: Hebbal Farm Post, Bellary Rd, Bangalore 560024; Ph: 30989.

MADHUSUDHAN REDDY, V: Prop, Rohini Hatcheries; b 6 May 45. Ed: BSc, 67, Osmania. Add off: 3-5-1093/22/2B, 28 Venkateshwara Colony, Narayanaguda, Hyderabad 500029; resi: 3-4-875/3 Barkathpura, Hyderabad 500027; Ph resi: 63728.

MADVESH, C K: Dy Gen Mgr, Ranbaxy Laboratories Ltd; b 26 Dec 39. Ed: BSc, 61, Madras. Add off: 78 Nehru Place, New Delhi 110019 resi: B-15 East of Kailash, New Delhi 110065; Ph off: 6416417, 6416160.

MAHANBIR SINGH, Dr: Mg Dir, Andhra Eggs Pvt Ltd. Add off: 5-9-22/27, Adarsh Nagar, Hyderabad 500483; Ph off: 46111.

MAHAPATRA, Gopinath: Prop, Kalika Manufacturers & Suppliers; b 12 July 27. Ed: Dip in Engg, Orissa School of Engg. Add off: Tinkonia Bagicha, Cuttack 753001; resi: Madhusudan Nagar, Cuttack 755008; Ph off: 23299.

MAHENDAR, Mateti: Associate Prof & Head, Dept of Pathology, Vet Coll, Rajendranagar, Hyderabad; b 13 Aug 35. Ed: BSc, BVSc, MS (USA). Add off: Hyderabad 500030; resi: 899 Sadar Bazar, Bolarum, Secunderabad 500010.

MAITRA, Dr Dwipen: Head, Dept of Anim Production & Management, Faculty of Vet & Anim Sc; b 18 July 37. Ed: BSc, 56; BVSc & AH, 60; MSc, 62; PhD, 76. Add: Bidhan Chandra Krishi Vishwa Vidyalaya, Kalyani 741235, Dist Nadia, West Bengal.

MAITI, N C: Mg Partner, Midnapore Hatcheries Add: Keranitola, Midnapore 721101, West Bengal; Ph off: 882 (MNP); resi:461 (MNP)

MAITY, Kajal: Prop, Contai Hatcheries. Add: 11 Palm Avenue, Ballygunge, Calcutta 700019; Ph: 432917.

MALHOTRA, Dr Faquir Chand: Poul Consultant; b 22 Oct 28. Ed: BVSc, 50, Punjab; Postgraduate Poul Sc, 62, Australia; MS, 67, USA; PhD, 69, Purdue Univ (USA). Add: 643 Sector 8, Panchkula, Haryana.

MALIK, Dr Brahma Singh: Dean, Faculty of Vet Sc & AH, JNKVV; b 15 Jan 27. Ed: BVSc & AH, 52, MVSc, 59, Agra; PhD, 64, New Hampshire, USA. Add off & resi: South Civil Lines, Jabalpur 482001; Ph off: 25783; resi: 22210.

MALLICK, Dr Bibhuti Bhusan: Prof of Eminence (Bacteriology, Virology & Immunology), IVRI; b 1 Aug 35. Ed: BSc, 55, GVSc (Hons) 57, Associateship of IVRI, 64, DSc (Sorbonne), 67, FCAI, 74. Add off: Izatnagar, UP; Ph off: 6102; resi: 6205.

MALLYA, S R: Div Mgr, Corporation Bank; b 12 Nov 36. Ed: BA, Poona; LLB, Osmania; CAIIB, Indian Inst of Bankers. Add off: PB No 88, Mangalore 575001; resi: 106/22C, 'Sridevi Nilaya', Shaktinagar Rd, Mulashekar, Mangalore 575005; Ph off: 26416; resi: 27186.

MANDANA, Jeevan: Partner, Fab Cages & Industries; b 14 Nov 45. Ed: BSc (Chem),Madras

Add off: 1/1 Spencer Rd, Bangalore 560005; Ph: 577872.

MANDAWAT, Pratap Singh: Dep Dir (Poul), Dept of AH, Raj; b 20 Dec 32. Ed: BVSc & AH, 58, Rajputana; MSc (AH & D), 67, Udaipur; Jr Res Fellow (Dairy Husbandry), ICAR; Postgraduate Ref Certificate in Poul. Add off: Dept of AH, Jaipur 302001; resi: 13 Transit Hostel, Gandhi Nagar, Jaipur; Ph off: 63548.

MANJIT SINGH: Mg Partner, Maharani Poultry Breeding Farm, 772 Lt Swarnjit Singh Market, Mota Singh Nagar, opp Main Bus Stand, Jalandhar City 144001; Ph off: 3230; resi: 3240; farm (Kapurthala): 2996, 2832; Delhi off: 6413421; resi: 6414066; farm: 868123.

MANOHAR, Vontimitta Krishna: Partner, Mandovi Hatcheries; b 10 July 46. Ed: BCom, 71, Andhra. Add off: Block-C, Mukund Prasad, Shanti Nagar, Ponda, Goa 403401; resi: "Shantinikethan", Shanti Nagar, Ponda, Goa; Ph off: 277; resi: 74.

MARATHE, Chintamani Ramchandra: Mgr Mktg, AHD, The Bharatiya Agro-Industries Foundation; b 3 Nov 39. Ed: BVSc, 62, Bombay; MVSc, 68, Agra. Add off: BAIF-BRIAH, off Pune-Nagar Rd, Wagholi, Pune 412207; resi: Samrudhi, 125/6 Erandwana, Pune 411004; Ph off: 70408-9, 70459, 70859.

MARTIN, Philip J: Pres, Sangli Poul Farmers Assn, Martin's Restaurant & Snack Bar, opp Old Rly Station, Sangli 416416, Maharashtra.

MARWAHA, Dev Raj: Mktg Controller (Eastern Region), Kegg Farms Pvt Ltd, & Techl Adviser, Blue Cross (India); b 4 Mar 25. Ed: BVSc & AH, 46, MRCVS, 51. Add off: 77, Dharamtolla Street, Calcutta 700017; Ph: 444939.

MASAND, Chunilal W: Tech Dir, Masand Industries; b 12 Dec 22. Ed: BSc (Engg), 45; DIISc, 46; MS (Engg), 49. Add off: G T Rd, Jalandhar; resi: 3-A Model Town, Jalandhar; Ph off: 2488; resi: 2865.

MATHEW, Dr Zachariah: Mgr, Vet Services, Anim Health Care, Ranbaxy Laboratories Ltd; b 14 Mar 39. Ed: BVSc, 60, Kerala; MVSc, 65, Bombay; PhD, 71, Bombay; MAMS, 74, New Delhi. Add off: 78 Nehru Place, New Delhi 110019; resi: 20 C Pocket C, Wazirpur, Phase III, Delhi 110052; Ph off: 6416417; resi: 7120223.

MATHUR, A C: Offr on Spl Duty, The Bharatiya Agro-Industries Foundation. Add: C/35 Hauz Khas, New Delhi 110016; Ph: 652903.

MATHUR, C M: Gen Mgr, Cattle Feed Factory, MP State Coop Mktg Fedn Ltd; b 10 Apr 48. Ed: MSc (Agri) Hons, JNKVV. Add off: Dhamdha Rd, Durg 491001; Ph off: 2767; resi: 2801.

MATHUR, Dr P B: Asst Dir-Gen (ASE), ICAR; b 15 June 36. Ed: MVSc, 61, Agra; PhD, 66, FU, Berlin, W Germany. Add off: Room No 307, Krishi Bhavan, New Delhi 110001; resi: 311 SFS DDA Flats, Haus Khas, New Delhi; Ph off: 389216; resi: 660295.

MATHUR, P D: Founder Pres, Rajasthan Poul Farmers Federation & Ex Dir of AH, Raj. Add: near Panchayat Samiti, Jhatwara, Jaipur 302012; Ph: 842293.

MATHUR, Rajendra Prasad: Consultant; b 26 July 26. Ed: BSc, 47, Allahabad; BVSc & AH, 52; MS, 61, Ohio, USA. Add resi: B-1/3 Balda Rd Colony, Nishat Ganj, Lucknow.

MATHUR, Ramesh Narain: Sales Mgr, Essex Farms (P) Ltd; b 21 Apr 34. Ed: BA, 56, Delhi; Business Management, 60, Bristol, England. Add off: Aurobindo Marg, New Delhi 110016; resi: M-96, Saket, New Delhi 110017; Ph off: 664056; resi: 669778.

MATHUR, Dr S C: Jt Commissioner (LH Surveillance), GOI; b 1 Jan 39. Ed: BVSc & AH, 60, Vikram; MVSc, 67, Agra; PhD, 72, London; Fellow of Royal Society of Tropical Med & Hygiene. Add off: Dept of Agri, Krishi Bhavan, New Delhi 110001; resi: K-1-2, M S Flats, Sector XIII, R K Puram, New Delhi 110066; Ph off: 384858, 388911 Ext 796; resi: 605650.

MATI, Kanai Lal: Mg Dir, M P State Livestock & Poultry Dev Corpn; b 28 Dec 30. Ed: GVSc, 50, Calcutta; PG (PH & AG), 56, IVRI; Dip in Poul, 64, Missouri Univ, USA. Add off: H-29 Nishat Colony (74 Bungalow), Bhopal; resi: E-8/2 Char Imli, Bhopal; Ph off: 66090; resi: 61706.

MAUR, Bhagwan Singh: Dep Gen Mgr (Sales), Shivalik Hatcheries Pvt Ltd; b 5 Feb 40. Ed: BVSc & AH, 60; MSc (Poul), 66. Add off: SCO 359, Sector 32-D, Chandigarh; Ph off: 40273.

MEHAR CHAND: Prop, Deepak Poul Farm; b 25 May 04. Add: 6/54 Ajmal Khan Rd, Karol Bagh, New Delhi 110005; Ph: 5722403.

MEHTA, Farrokh Kaikhushroo: Mktg Dir, Agril Div, Pfizer Ltd, Bombay; b 24 May 32. Ed: MA, LLB. Add off: PB 667, Express Towers, Nariman Point, Bombay 400021; resi: 15 Ashoka Apartments, Napean Sea Rd, Bombay 400006; Ph off: 232824; resi: 8124331.

MEHTA, K K: Asst Mgr, Sales Promotion, Sarabhai M Chemicals, Gorwa Rd, Baroda 390007; Ph off: 8821.

MEHTA, Lalit Purshotamdas: Gen Mgr, General Insurance Corpn of India; b 27 Sept 27. Ed: LLB. Add off: Indl Assurance Bldg, 4th Floor, Churchgate, Bombay 400020; resi: 13 Hill Park, A G Bell Marg, Malabar Hill, Bombay 400006; Ph off: 221187; resi: 815237.

MEHTA, Onkar Nath: Chairman, Jimmy's Scientific Farms & Hatchery; b 23 Apr 23. Ed: BA, 42, Lahore, psc, 59, Wellington. Add: PO Clement Town, Dehra Dun 248002; Ph resi: 8273.

MEHTA, Suhas Sukhlal: Exec, Agrocorpex India Ltd; Mgr, Finance, Venkateshwara Hatcheries Pvt Ltd; b 9 Mar 53. Ed: BCom, 72, Bombay; ACA, Inst of Chartered Accountants, New Delhi. Add off: 153-C, Mittal Tower, Nariman Point, Bombay 400023; resi: B-34 Rameshwar, Santacruz (W), Bombay 400054; Ph off: 243839, 231956.

MEHTA, Virender Lal: Dir, Anim Husbandry, Himachal Pradesh; b 1 Mar 30. Ed: BVSc & AH, 50, Punjab; NDAH, 65, IVRI. Add off: Directorate of Anim Husbandry, Himachal Pradesh, Shimla at Khalini, Shimla 171002; resi: Set No 4, Type IV, New Brockhurst, Shimla 171002; Ph off: 3089; resi: 3561.

MHATRE, A: Prop, Prabhat Poultry, Sushil, 14 Shivaji Park, Bombay 400028; Ph: 451103.

MENON, Manavazhi Narayana: Retd Anim Husbandry Commissioner, (GOI); b 28 Mar 19. Ed: GMVC, 42, Madras; BVSc, 43, Madras; Associate, IDRI, 47, Bangalore; MRCVS, 51, Edinburgh; FRCVS, 57. Add: Anuradha, Trivandrum 695005, Kerala; Ph: 64602.

MIRCHANDANI, Jimmy: Mg Dir, Aries Marketing Pvt Ltd. Add off: Aries House, 24, Deonar, Govandi (East), Bombay 400043;resi: 3 Golden Beach Scheme, Ruia Rd, Bombay 400049; Ph off: 5519575, 5519506; resi: 623241.

MIRCHANDANI, Dr Thakurdas Bhagchand: Mg Dir, Aries Agro-Vet Industries Pvt Ltd; b 19 Apr 32. Add off: Aries House, 24, Deonar, Govandi (East), Bombay 400043; resi: 3 Golden Beach Scheme, Ruia Rd, Juhu, Bombay 400049; Ph off: 5519575, 5519506; resi: 623241.

MISHRA, Dr Benudhar: Prop, Utkal Hycross Farm; b 2 Jan 32. Ed: GVSc, 53, MS, 61, PhD, 64, USA. Add: Kuntakanta, Dhenkanal 759001, Orissa; Ph: 57.

MISTRY, Ishwarlal L: Partner, Kwality Fabricators; b 1944. Ed: Dip in Mech Engg, 66. Add off: C1-19 GIDC Estate, Anatalia, Bilimora 396325; resi: 93 Anand Society, College Rd, Bilimora 396321; Ph off:2674,2396,2660;resi:2725.

MITHUJI, Gustasp Framroze: Nutritionist, Anim Feeds Div, Godrej Soaps Pvt Ltd; b 25 Sept 33. Ed: BSc (Vet), 55, Bombay; MS, 64, Kansas, USA. Add off: Eastern Express Highway, Vikhroli, Bombay 400079; resi: Nutan Jeevan Coop Society, Irla, S V Rd, Bombay; Ph off: 587760 (Direct), 586331.

MITRA, Dr Amitav: Management Specialist, Central Training Inst for Poul Prod & Management; b 15 Apr 39. Ed: BVSc & AH, MS, PhD. Add off: Poultry Complex, Hessarghatta, Bangalore 560088; Ph off: 384303 & 26 (HGT); resi: 32 (HGT).

MITTAL, Hari Om: Partner, Anu Poul Farm; b 20 Feb 42. Add: 41-B, Udham Singh Nagar, Ludhiana 141001; Ph resi: 33180.

MOHAN, K V: Partner, Manohar Poul Farm & Devi Feeds. Add off: 95 Main Rd, Namakkal; farm: Karuppattypalayam, PO Nallipalayam, Salem Dist, Tamil Nadu; Ph off: 701; farm: 601; factory: 850.

MOHAN, Dr Kuppuswamy: Mg Partner, Maruthi Farms & Consultant, Maruthi Poultry Consultants; Vice-Pres, Techl Advisory Council, TNPFWA; b 25 Dec 43. Ed: BVSc & AH (Hons), 66, Magadh; MS, 70, Missouri, USA; FRVCS, 70, Stockholm Sweden; ASVCP, USA; Doctoral Coursework, Univ of Gulf, Canada, 76-79. Add off & resi: 1476 Upstairs, South End "B" Cross, Jayanagar, 9th Block, Bangalore 560069.

MOHAN, Dr Lingareddy: Asst Dir (Tech), Dept of AH, Andhra Pradesh; b 1 June 52. Ed: BVSc, 73, Madras; MSc (Vet), 76, APAU; PhD (Poul Sc), 80, APAU. Add off: Shantinagar, Hyderabad 500028; resi: 53-4/MI-MIGH Sanjeeva Reddy Nagar, Hyderabad 500038; Ph off: 36852; resi: 262339.

MOHAN RAO, N: Gen Mgr, Sulochana Hatcheries; b 10 Dec 44. Ed: BSc, 65, Osmania. Add off: 15/205 Brindavanam, Nellore 524001; resi: 24 Settigunta Rd, Nellore, AP; Ph off: 1204; resi: 2441.

MOHANTY, Gobinda Chandra: Prof & Head, Div of Avian Diseases, IVRI; b 2 Nov 35. Ed: BVSc & AH, 59, Bihar; MVSc, 61, Agra; PhD, 67, Kansas State (USA). Add off: Indian Veterinary Research Institute, Izatnagar 243122; resi: GOB-No 3, IVRI Campus, Izatnagar 243122; Ph off: 75510.

MOHANTY, Dr Guru Prasad: Mg Dir, Orissa State Poultry Products Coop Mktg Federation; b 18 Oct 38. Ed: BVSc & AH, 60, Utkal Univ; MS, 66, PhD, 68, S Dakota State Univ, USA. Add off: Dte of Anim Husbandry, Dairy & Vet Services, Cuttack 753001; resi: Badambadi, Cuttack 753012; Ph off: 22296; resi: 22648.

MOHANTY, Kulamoni: Dep Dir, Poul Breeding & Research, Orissa; b 15 June 32. Ed:

BVSc & AH, 54, Advanced Course in Poul Husbandry, 59, IVRI. Add off: State Poul Breeding Farm, Angul, Dhenkanal Dist, Orissa; Ph: 81 (Angul).

MOHANTY, Rahas Behari: Mg Dir, Baal Gopal Agro-Vet & Chemical Industries (P) Ltd; b 26 Apr 54. Ed: BA, 76, Utkal Univ. Add off: 41 New Industrial Estate, Jagatpur, Cuttack 754021; resi: Samantasahi (Bajrakabati Rd), Cuttack 753001; Ph off: 13239; resi: 25373.

MOHAPATRA, Dr Sarat Chandra: Proj Coordinator, Poul Breeding, CARI; b 27 Nov 36. Ed: BVSc & AH, 60, Utkal; MS, 66, PhD, 68, Virginia Polytechnic Inst,USA. Add off: CARI, IVRI Campus, Izatnagar 243122; resi: 3 Type V Qrs, IVRI Campus, Izatnagar 243122; Ph: 74230.

MOHI-UD-DIN, Ghulam: Dir, AH Dept, Jammu Div, Old Secretariat, Jammu 180001; Ph off: 44552; resi: 5403.

MOKASDAR, Prabhakar Damodar: Dir, AH Dept, Maharashtra; b 20 May 31. Ed: BVSc, 52, Jabalpur; Postgraduate Dip in Sheep & Wool Production, 56; MS in Poul Sc, 64, Hawaii (USA). Add off: Central Bldgs, Pune 411001; resi: Block A-6, Mawal Flats, Moledina Rd, Pune 411001; Ph off: 63843; resi: 64331.

MOKASHI, Damodar Venkatesh: Dir of AH, Gujarat; b 16 May 28. Ed: BSc (Vet), 50, Bombay; NDPH, IVRI. Add off: Dte of AH, Krishi Bhavan, Ahmedabad 380006; resi: K-80 'K' Colony, Navarangpura, Ahmedabad 388009; Ph off: 78447; resi: 440828.

MOOKERJEE, Dr Ajit Lal: Tech Mgr, Cyanamid India Ltd; b 1 Feb 31. Ed: MSc, 51, PhD, 63, Calcutta Univ. Add off: Nyloc House, 254-D2, Dr Annie Besant Rd, Worli, Bombay 400025; resi: Rock House, Worli Hill, Bombay 400018; Ph off: 4935211; resi: 4935739.

MOORJANI, Dr Madhov Naraindas: Livestock Counsellor; b 28 Mar 23. Ed: BSc (Hons), 44, MSc, 47, PhD, 49, Specialization in Meat, Fish & Poul Technology. Add: 41 Shalimar Apartments, C-I, Desouza Rd, Bangalore 560025.

MUKHERJEE, Sambu Nath: Editor, Poultry, Calcutta; b 1 Dec 34. Ed: BA, 64. Add off: 19/1 Camac St, Calcutta 700017; resi: 50-A Suri Lane, Calcutta 700014; Ph off: 449075, 449259; resi: 244204.

MUKHERJEE, Shomir Kumar: Prop, JJY Farms; b Feb 44. Ed: BVSc & AH, PG, 68, UP Agril Univ, Pantnagar. Add: PO Box 2725, Shantinagar, Bangalore 560027.

MUNIRATNAM, V: Mg Dir, Venvet Chemicals Pvt Ltd; b 9 Aug 42. Ed: BVSc, 63, Venkateswara Univ, Tirupati. Add off: 3-6-97, Shaheedyar Jung Rd, opp Tirumala Apartments, Basheer Bagh, Hyderabad 500029; resi: 10-6-64/5/1/A, 1st Floor, Sriramanagar Colony, Masab Tank, Hyderabad 500028; Ph off: 32616.

MURTY, K M K: Poul Farmer, Feed & Equipment Manufacturer & Prop, Kosala Enterprisers. Add: B-4 Industrial Estate, Sambalpur 768120, Orissa; Ph: 1766.

MURTY, Mutyala Venkata Satya Narayana: Poul Consultant; b 1 Aug 35. Ed: BVSc, 60, Bombay; NDPH, IVRI. Add: Dr Murty's Farm, Bilvardahalli, Gottigeri PO, Bangalore 560029.

MUTHA, Prakash: Mg Dir, Vippy Solvex Products Pvt Ltd; b 7 Aug 44. Ed: BSc, 67, Vikram. Add off: 28 Industrial Area, A B Rd, Dewas 455001, MP; resi: 41 University Rd, Ujjain; Ph off: 2582, 2583 (Dewas); farm: 3458 (Ujjain); resi: 4151 (Ujjain).

MYLSAMY GOUNDER, S K: Prop, SKM Poul Services, Mktg Centres; Mg Dir, SKM's Energy Animal Feeds Pvt Ltd; Mg Dir, SKM Farm Engineering Pvt Ltd; Editor & Publisher, 'Kozhi Nanban' (Tamil); Pres, Tamil Nadu Poul Farmers' Welfare Assn; Mem, Central Poul Dev Advisory Council; Mem, Special Working Group, Animal Husbandry, Tamil Nadu Planning Commn; Zonal Chmn, NECC, Erode Zone; b 18 June 45. Add off: 49/C, Gandhiji Rd, Erode 638002; resi: H-80 Periyar Nagar, Erode 638001; Ph off: 73667, 75214, 75215; resi: 75679.

N

NACHIMUTHU, M R: Mg Dir, Minimix Pharmaceuticals Pvt Ltd; b 30 Apr 36. Ed: BVSc, 57, Madras. Add off: 21-A Gandhinagar, Namakkal 637012; Ph off: 2939, 2930; resi: 2903, 2912.

NADKARNI, S S: Gen Mgr (Mktg), TTK Pharma Pvt Ltd (Animal Welfare Div). Ed: BSc, 56, MS Univ, Baroda; PG Dip (Mktg), 66, IIM, Calcutta. Add off: 66 Luz Church Rd, Mylapore, Madras 600004; Ph off: 74110, 74327.

NAGRAJ, Komarla: Partner, Komarla Feeds, Komarla Poul Farm, Komarla Hatcheries; b 1 Aug 39. Ed: BCom, 60. Add off: 53 Old Tharagupet, PB 7165, Bangalore 560053; resi: 25 Narasimha Jois Lane, Nagarthpet Cross, Bangalore City 560002; Ph off: 71305, 24834; resi: 220149.

NAGARAJ, M S: Prop, Janata Poul Farm, 20 Bannimantap "A" Layout, Mysore 570015; resi: 248, 'Tripti', Gokulam III Stage, V V Mohalla, Mysore 570002; Ph: 24883.

NAGESWARA RAO, Dr Kodali: Mktg & Technologist Specialist, CTIPPM, Govt of India; b 6 July 42. Ed: BVSc & AH, 67, JNKVV; MSc (Vet), 70, Andhra Agril Univ; PhD, 78, Agra. Add: Poul Complex, Hessarghatta, Bangalore 560088; Ph off: 39 (HGT); resi: 50 (HGT).

NAGESWARA RAO, Nimmagadda: Tech Adviser, Balaji Feed Supplements, Essen Feeds; b 5 June 42. Ed: BVSc, 65, APAU, Tirupati. Add off: Plot No 2 & 3, 1st Cross Rd, Auto Nagar, Vijayawada 520007; resi: Durga Agraharam, Vijayawada 520002; Ph off: 52814.

NAGESWARA RAO, Tummala: Mg Partner, Essen Feeds. Add off: Plot No 2 & 3, 1st Cross Rd, Auto Nagar, Vijayawada 520007; resi: Mogalrajapuram Rd, Labbi Pet, Vijayawada 520010; Ph off: 52814.

NAIDU, V Sunder: Mg Partner, Balaji Hatcheries. Add: Reddigunta, PO Chittoor 517002, AP; Ph off: 2766; resi: 2256.

NAIR, Dr Madhavan Krishnan: Dean, Faculty of Vet & Anim Scs, Kerala Agril Univ; b 25 July 33. Ed: BSc, 52, BVSc, 59, MVSc, 66, FRCVS, 68, PhD, 73. Add off: Kerala Agril Univ, Mannuthy 680651; resi: Warden's Qrs, Vet Coll Campus, Mannuthy 680651; Ph off: 20451; resi: 21808.

NAIR, Narayanan Gopinathan: Mktg Dir, Alved Pharmaceuticals Pvt Ltd; b 6 June 36. Ed: BVSc, 61, Kerala Univ. Add off: 5 Chandrabagh Avenue, Madras 600004; resi: T-70-B, 7th Avenue, Besant Nagar, Madras 600090; Ph off: 849449; resi: 415489.

NAMBIAR, Puthussari Kunhikannan: Adviser, Dte of AH, Kerala; b 29 Jan 29. Ed: BVSc, 51; NDAH, 61. Add off: Vikas Bhavan, Trivandrum 695001; Ph off: 62283; resi: 82115.

NANDAKUMAR, K: Mg Dir, Vijaya Hatcheries Pvt Ltd. Add off: Vill Penamaluru 521139, Krishna Dist, AP; Ph off: 8329.

NANDA KUMAR, P S: Partner, Komarla Hatcheries, Komarla Feeds & Komarla Poultry Farm. Add: Old Tharagupet, Bangalore 560052; Ph off: 71305, 24834; resi: 602797.

NANJUNDAIAH, B N: Chmn & Mg Dir, Smak Pharmaceuticals Pvt Ltd; b 26 Aug 49. Ed: DPharm, 69.Add off&resi:51, First Main, Vyalikaval, Bangalore 560003;Ph:366225.

NARAIN, Dr Prem: Dir, Indian Agril Statistics Res Inst; b 3 Jan 34. Ed: BSc, 52, BSc (Hons), 53, MSc, 54, Lucknow; PhD, 69, DSc, 84, Edinburgh Univ, UK. Add off: Library Avenue, New Delhi 110012; resi: Director's Bungalow, IASRI Campus, Library Avenue, New Delhi 110012; Ph off: 581479; resi: 581088.

NARANG, Chander Prakash: Editor & Publisher Poultry Guide, Poultry Reporter; b 15 Sept 21. Add off: C P Narang Pvt Ltd, 20 Thyagraja Nagar Market, New Delhi 110003; resi: B-59, NDSE-I, New Delhi 110049; Ph off: 621018, 622278; resi: 618981.

NARAYANAN, Sriramachariar: Mgr, Sales Coordination (Vet), Sarabhai Chemicals; b 28 Sept 46. Ed: BVSc, 68. Add off: Vet Div, 616/617 off Vikram Sarabhai Marg, Behind Shastri Bridge, Vadodara 390003; resi: 3B Sarabhai Colony, Getri Rd, Vadodara 390007; Ph off: 66828.

NARPAL SINGH UPPAL: Brand Mgr, Chem Div, Voltas Ltd; b 16 Jan 50. Ed: B Tech (Chem), 71, IIT, Delhi; PG, DBM, 74, IIM, Ahmedabad. Add off: 19 J N Heredia Marg, Ballard Estate, Bombay 400038; resi: C-II-4 Tata Housing Centre,Andheri (W), Bombay 400058; Ph off: 268131.

NARUMALANI, Kanu Gagandas: Dir, Jayems Parkim P Ltd; b 4 Apr 44. Ed: BE (Mech), BE (Elec), Gujarat Univ, Ahmedabad. Add off: 130/132 Great Western Bldg, Fort, Bombay 400023; resi: "Quest End", 4th Floor, East Wing, 47, Cuffe Parade, Bombay 400005; Ph off: 245167; resi: 4951885.

NAYAK, Dr Babaji Charan: Dean, Faculty of Vet Sc & AH, OUAT, Bhubaneswar; b 23 Sept 30. Ed: BVSc & AH, Patna; Postgraduate, IVRI; MVSc, Punjab; FRVCS, Sweden; PhD, Kansas State Univ, USA. Add off: Faculty of Vet Sc & AH, OUAT, Bhubaneswar 751003; resi: Qr No 10-VF, Agriculture Colony, Unit-8, Bhubaneswar 751003; Ph off: 50732; resi: 50514.

NEHAL AKHTER: Partner, Paper World Industries. Add: 13/3D Patwar Bagan Lane, (near Rajabazar), Calcutta 700009; Ph: 35-8720.

NEHRA, Arun Kumar: Mg Dir, Production & Operations, RaniShaver Poul Breeding Farms Pvt Ltd; b 7 Jun 43. Add off: 3 Shopping Centre, West End, New Delhi 110021; resi: RaniShaver Poul Breeding Farms Pvt Ltd, 15/2 Milestone, Gurgaon Rd, Gurgaon; Ph off: 671126, 670611; farm: 391777, 391888; resi: 393288.

NEHRA, R N, Maj-Gen (retd): Partner, RaniShaver Poul Breeding Farms Pvt Ltd. Add off: 3 Shopping Centre, West End, New Delhi 110021; resi: A8 West End,

New Delhi 110021; Ph off: 670611,671126; farm: 391777; resi: 673655, 670594.

NEHRA, Sanjiv Kumar: Vice-Chmn & Tech Dir, RaniShaver Poul Breeding Farms Pvt Ltd; b 6 July 50. Ed: BA (Hons). Add off: 3 Shopping Centre, West End, New Delhi 110021; resi: A-8, West End, New Delhi 110021; Ph off: 671126, 670611; farm: 391777; resi: 674155.

NETKE, Dr Shrirang Parshuram: Prof & Head, Anim Nutrition & Food Technology Dept, JNKVV, Jabalpur; b 11 Apr 27. Ed: BSc Vet (Hons), 49, Bombay; MS, 59, PhD, 70, Illinois, USA. Add off: Vet Coll, JNKVV, Jabalpur 482001, MP; resi: Vet Coll Campus, Jabalpur; Ph off: 26330.

NIMBKAR, Bon Behari Vishnu: Chmn, MAFCO Ltd; b 17 July 31. Ed: BSc, 51, Rutgers Univ, New Jersey, USA; MSc, 55, Univ of Arizona, USA. Add off: Mistry Bhavan, Dinshaw Vachha Rd, Bombay 400020; resi: Near Jinti Bridge, Lonand Rd, Phaltan 415523, Satara Dist; Ph off: 299998.

NISSAR AHMED: Chief Exec, Azra's Poultry Equipment. Add: No 1 Miller Tank Bund Rd, Bangalore 560052; Ph: 72111, 77273.

O

OKA, D M, Gp Capt (retd): Mg Partner, Poona Pearls. Add off: Jiyajee Mansion, Hadapsar, Pune 411028; resi: 'Nawal', 40/26 Bhonde Colony, Karve Rd, Pune 411004; Ph off: 70177 & 70477; resi: 54557.

OOMMEN, K O: Production Mgr, Central Hatchery, Chengannur; Ed: BSc, BVSc, 64, Kerala. Add off: Chengannur 689121, Alleppey Dist, Kerala; resi: Kattaparam House, Kulakadu, Tiruvalla 689101, Alleppey Dist; Ph: 277 (Chengannur).

P

PAHWA, Devi Dyal: Poul Disease Investigation Offr, Sonepat; b 12 Nov 34. Ed: BVSc & AH, 58, Hissar, NDPH, 73, IVRI. Add off: Vet Hospital, Sonepat 131001, Haryana; Ph off: 2001.

PAI, K M: Gen Mgr, The Modern Mills Ltd, Sundatta Foods & Fibres Div. Add off: Karwar Rd, Hubli 580020; resi: Rear Block, Ganesh Niwas, Near Dr Mahishi's Dispensary, Keshwapur, Hubli 580023; Ph off: 2950; resi: 2676.

PAI, Kasturi Prabhakar: Partner, Mukka Oil & Seafood Industries, Mission St, Mangalore 575001, S Kanara Dist, Karnataka; Ph: 21668.

PALKAR, Vinod Madhav: Mktg Mgr, Anim Health, Glaxo Laboratories (I) Ltd; b 7 Jan 39. Ed: MSc, 62, Poona. Add off: D & P Div, Dr A B Rd, Bombay 400025; resi: C/9 Shree Sadhana Coop Housing Society, Tejpal Scheme, Main Rd, Vile Parle (E), Bombay 400057; Ph off: 4933871; resi: 6041142.

PANDA, Dr Bhagabat: Dir, Central Avian Research Institute (CARI); b 16 Mar 29. Ed: BSc Vet (Hons), 53, Bombay; MS, 60; PhD, 63, Maryland, USA. Add off: IVRI Campus, Izatnagar 243122; resi: OC Bungalow No 1, IVRI Campus, Izatnagar 243122, Bareilly Dist, UP; Ph off: 76420; resi: 76239.

PANDA, Jogindra Nath: Poul Consultant & Retd Dir, AH & Vet Services, Orissa; b 9 Aug 20. Ed: GBVC, 44; ACPH, IVRI, 47; MS (Poul), 49; Advanced Training at Bureau of Anim Industry, US Dept of Agri, 49-50. Add: B-25 Bakshi Jagabandhu Nagar, Bhubaneswar 751014; farm: vill Kuchipali, via Ghess 768034, Sambalpur Dist, Orissa.

PANDA, Dr Prafulla Chandra: Prof & Head, Dept of Anim Products Technology; b 3 Apr 38. Ed: BVSc & AH, 60; MVSc, 64; PhD, 72. Add off: Coll of Anim Scs, HAU, Hissar 125004; resi: Qr No 8/11 HAU Campus, Hissar 125004; Ph off: 3816.

PANDE, Arun Prakash: Head, Dept of Avian Pathology, CARI; b 1 July 38. Ed: BVSc & AH, 60; NDPH, 61, MVSc, 69; Advanced Trg (Poul Health), 73, GDR. Add off: CARI, Izatnagar 243122, UP; Ph:74322.

PANDEY, Ashok Kumar, IAS: Dir of AH, Govt of Rajasthan; b 1 Jan 50. Ed: BA, 68, MA (Poul Sc), 70, Allahabad. Add off: Directorate of Anim Husbandry, Govt of Rajasthan, Jaipur; resi: D-721, Gandhinagar, Jaipur; Ph off: 73634; resi: 63039.

PANDIT, Chandrakant Narayanrao: Vice-Pres (Mktg), Anim Health Products, Eskayef Ltd; b 3 Dec 30. Ed: BSc Vet (Hons), 52; MRCVS, 55; DAP & E (Lon), 56. Add off: Post Box 2, Bangalore 560049; resi: 569 HAL II Stage, 6th Cross Rd, Indiranagar, Bangalore 560038; Ph off: 58261; resi: 577090.

PANDIT, Prabhakar V: Prop, Spraycraft; b 8 Nov 41. Ed: BSc (Agri), MSc (Agri). Add off: 81 Nandlalpura, Indore 452004, MP; resi: 21 Vasudevnagar, Manickbag Rd, Indore 452004; Ph off: 30582.

PANDIT, Sharadkumar Vishnu: Res Programme Coordinator (Poul Vaccines), AHD, The Bharatiya Agro-Industries Foundation;

b 6 Oct 36. Ed: BVSc (Hons), 60, MVSc (Bacteriology), 62, Bombay. Add off: BAIF-BRIAH, off Pune-Nagar Rd, PB No 1, Wagholi, Pune 412207; resi: 189A, Laigude's House, Aundh Village, Pune 411007; Ph off: 70408-9, 70459, 70859.

PANDIT, Shrikrishna Dattaram: Div Mgr, Food Processing Div, Larsen & Toubro Ltd; b 11 Nov 31. Ed: LME, 54. Add off: L & T House, Ballard Estate, Bombay 400038; resi: 61 Tardeo Court, Jawaji Dadajee Marg, Bombay 400007; Ph off: 268181; resi: 394153.

PANDITA, Dr Niranjan Nath: Prof & Head, Dept of AH, Inst of Agri, BHU; b Mar 37. Ed: MSc (Agri), 58; PhD, 65. Add off: BHU, Varanasi; resi: New F/2 Jodhpur Colony, BHU, Varanasi 221005; Ph off: 489.

PANDURANGA SETTY, M K: Pres, Mysore Poul Farmers Assn, & Dir, Mysore Feed Ltd; b 4 Aug 33. Add off: Krishna Flour Mills (Bangalore) Ltd, 19 Platform Rd, Bangalore 560020; resi: 27 Bull Temple Rd, Basavangudi, Bangalore 560004; Ph off: 350128, 355566; resi: 601124.

PANEERSELVAM, K: Prop, Paneerselvam Poul Farm; b 31 Dec 41. Add off: 77 Dhevangam Pilliar Koil St, Shevapet, Salem 636002; Ph: 8777.

PANI, Arcot Devaraj Kothanda: Mg Dir, Blue Cross Farma; b 5 May 28. Ed: BSc (Vet), 54, Bombay. Add off & resi: 16-2-147/3, New Malakpet, Hyderabad 500036; Ph off: 552788; resi: 551677.

PANI, Dr Prafulla Kumar: Prof, CARI; b 2 Jan 34. Ed: BVSc & AH, 57, Patna; MS, 66, PhD, 72, Michigan State Univ, USA. Add off: P-G Education, CARI, Izatnagar 243122, UP; resi: Indra Nagar, opp IVRI, Izatnagar 243122; Ph off: 74332.

PANISUP, Attar Singh: Scientist, Avian Pathology, Div of Avian Diseases, IVRI; b 1 Aug 44. Ed: BVSc & AH, 67, MVSc, 74, HAU; FRVCS, 84, Sweden. Add off: IVRI, Izatnagar 243122, UP; resi: Rajendra Nagar, Izatnagar 243122; Ph off: 75510.

PARADKAR, Dilip Sahadeo: Prop, Paradkar Enterprise & Ajanta Sales Corpn; b 27 Sept 51. Ed: BSc (Hons), 71, Bombay; DMM, 73. Add off: R-435 Mangaldas Bldg No 7, Bombay 400002; resi: Flat No A-2, Bldg No 30, Manishnagar, Andheri West, Bombay 400058; Ph off: 299508.

PAREKH, Mrs Malvika Sudit: Mg Partner, Vighneshwara Poul Farm; b 22 Aug 42. Ed: BA, BL. Add farm: Taluka Havelli, Pune; resi: Pushpak, 15th Floor, 31 Altamount Rd, Bombay 400026; Ph farm: 17 (Uruli Kanchan); resi: 365539 (BMB).

PAREKH, Sudit Kantilal: Chartered Acctt; b 1 Jan 37. Ed: BCom, FCA. Add off: Sudit K Parekh & Co, Cama Bldg, 24/26, Dalal St, Bombay 400023; resi: Pushpak, 15th Floor, 31 Altamount Rd, Bombay -26 Ph off: 272602, 271964; resi: 365539.

PARTHASARATHY, M S: Exec (Feeds), Karnataka State Agro Corn Products Ltd, Agro Feed Div; b 21 Oct 45. Ed: BVSc, 68, Univ of Agril Scs; MVSc, 73, Agra. Add off: PB No 2479, Bellary Rd, Hebbal, Bangalore 560024; resi: No 759, II Block V Main, 8th Cross, R T Nagar, Bangalore 560032; Ph off: 367314; resi: 367589.

PATEL, Amritkumar Raychandra: Mgr, AFD & Proj Monitoring & Evaluation Cell, Bank of Baroda; b 1 Nov 37. Ed: MSc (Agri), 69. Add off: 3 Walchand Hirachand Marg, Ballard Pier, Bombay 400038; resi: B/2 Amarjyoti, Simpili Rd, Borivli; Ph off: 260341; resi: 663083.

PATEL, Jawaharlal Dahyabhai: Poul Consultant & Prop, The Papcock Farms, Inc; b 3 Mar 30. Add: Harni Rd, Vadodara 390006; Ph off: 52691; resi: 51305.

PATEL, Kanaiyalal Mangaldas: Div Mgr, Agri Products Div, Jyoti Ltd; b 17 Apr 42. Ed: BSc (Agri), 62, Sardar Patel Univ; BSc (Agri Engg), 65, Allahabad. Add off Industrial Area, PO Chemical Industries Vadodara 390003; resi: 10 Urmi Colony, Subhanpura, Vadodara 390007; Ph off: 82851-5; resi: 82096.

PATEL, Keshavlal Vithaldas: Chmn, Alarsin, Pharmaceutical Div; b 29 Dec 19. Ed: BA (Hons), LLB, Bombay. Add off: Oricon House, 12 K Dubash Marg, Fort, Bombay 400023; Ph off: 243058, 243569.

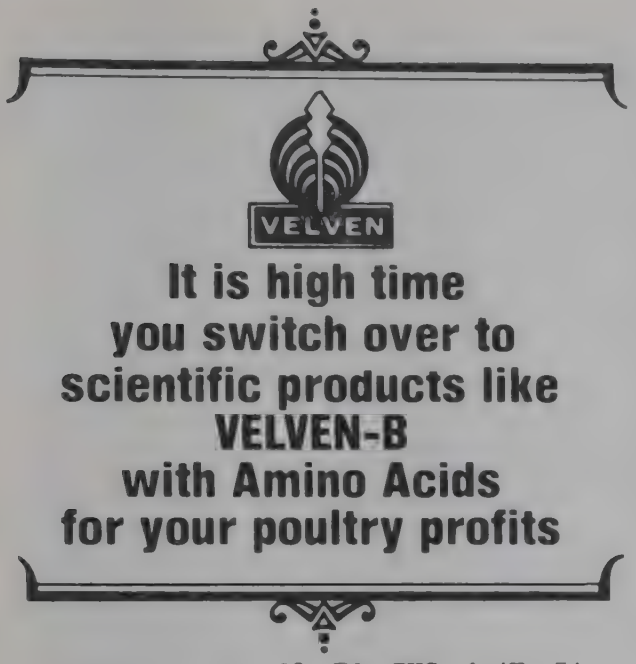
PATEL, Dr Motibhai Raghunathbhai: Dean, Coll of Vet Sc & AH, Anand; b 13 May 27. Ed: BSc (Vet) Hons, 50, Bombay; MRCVS, 53, Edinburgh; MS & PhD, 69, Urbana, USA. Add: Dean's Bungalow, Vet Campus, Anand 388001; Ph off: 3464; resi: 3357.

PATEL, Pravinkumar Raojibhai: Mg Partner, Prakash Poul Breeding Farm; b 30 Oct 40 Ed: MSc (Agril); Chick Sexing, Japan; MS (Poul Sc), Washington, USA. Add off PO Dungri 396375, Valsad Dist; Ph: 37.

PATEL, Vasant Khushalbhai: Mg Dir, An-Care Pvt Ltd; b 30 Apr 36. Ed: B Pharm, 62, LM Coll of Pharmacy, Ahmedabad. Add off & resi: 301 Chuchum, 82/1E Saraswati Rd Santacruz (W), Bombay 400054; Ph: 5393

PATEL, Vinodchandra Purushottamdas: Mg Partner, Dattatraya Poul Breeding Farm; b 2 Apr 49. Add: At & Post Surasamal, Nadiad Tq, Kheda Dist, Gujarat; Ph: 57 (Chikhodara).

PATHAK, Pratap Chandra: Dir, AH & Vet Dep



Assam; b 1 Mar 29. Ed: BVSc & AH, 51, Patna. Add off:M C Rd, Guwahati 781003; resi: PO Ulubari, Harbala Rd, Guwahati 781007, Kamrup; Ph off: 24609; resi: 27486.

PATIL, Ramchandra Govind: Gen Mgr (Tech), Venkateshwara Hatcheries Pvt Ltd; b 16 Oct 34. Ed: BVSc, 59, Bombay; MVSc, 64, Agra. Add off: 13/6 Milestone, Pune-Panshet Rd, PO Girinagar, Pune 411025; Ph off: 442244; resi: 55770.

PAUL, Robert Aurobindo: Mg Partner, Trident Products; b 4 Oct 50. Ed: AMIMI (London), AMIAI (Ind), 69. Add off: 1-2-29 Gagan Mahal Rd, Hyderabad 500029; resi: 8-2-603, Rd No 10, Banjara Hills, Hyderabad 500034; Ph off: 62720.

PEDDER, K: Prop, Gaylayers Poul & Farm Produce and Henlay Farm. Add farm: Babul, No 72 Vadgaon Sheri, off, Nagar Rd, Pune 411014; resi: Sisters Bunglow, H J Bhabha Rd, Band Stand, Bandra, Bombay 400050; Ph farm: 66451; resi:532064.

PONNAPPA, C G: Mg Partner, Sudarshan Feeds; b 17 Nov 39. Ed: BVSc, 61, MVSc, 70, IVRI. Add factory: Jagadish Baug, Navanagar, Hubli-Dharwad Rd, Hubli 580025; off: 9150 Sha Damji Bldg, Neeligin Rd, Hubli 580029; resi: 23 K H B Colony, Keshwapur Extn, Kusgal Rd, Hubli 580023; Ph fact: 65304; off: 65401; resi: 65623.

PONNUSAMY, M K: Mg Partner, Feeds India; b 14 Nov 50. Ed: MA (Econ), Madras; MBA, PSG (Tech), Coimbatore. Add off: 114-F Paramathy Rd, Namakkal 637002; resi: 48 Tamil Mandram St, Ganesapuram, Namakkal 637002; Ph off: 2330; resi: 2130.

PRABHAKAR, Dr Mysore Ramarao: Sr Asst Mgr (Feeds), EID-Parry (I) Ltd; b 10 Feb 43. Ed: MVSc, 71, JNKVV, PhD, 75, IVRI. Add off: Dare House, Madras 600001; resi: M-105/23, Kalakshetra Colony, Besant Nagar, Madras 600090; Ph off: 29251/302.

PRABHAKARAN, S: Ex-Mg Dir, Maharashtra Agro Industries Dev Corpn Ltd. Add off: Rajan House, 3rd Floor, near Century Bazar, Prabhadevi, Bombay 400025; Ph off: 4220823.

PRADHAN, Dr Hare Krishna: Scientist, Avian Pathology, Div of Avian Diseases, IVRI; b 1 Apr 45. Ed: BVSc & AH, 69, MVSc, 71, OUAT; PhD, 80, Agra. Add off: IVRI, Izatnagar 243122, UP; resi: Pyarelal Colony, Izatnagar 243122; Ph off: 75510.

PRADHAN, Dr Khageswar: Prof, HAU; b 9 Apr 36. Ed: BVSc & AH, 60; MS, 67; PhD, 69. Add off: HAU, APT Bldg, Hissar 125004, Haryana; resi: 6/2 Old Campus, HAU, Hissar; Ph off: 3721 Ext 256; resi: 3789.

PRAKASHA RAO, D V R: Mg Dir, Prakash Feed Mills Pvt Ltd; Pres, Prakash Consultancy Services; b 5 July 45. Ed: BSc, 63, Kakinada; BVSc & AH (Hons), 67, OUAT; MVSc, 71, IVRI. Add off: Plot No 3583, M-12 Anna Nagar East, Madras 600102; resi: Plot No 4147, V-67 Anna Nagar, Madras 600040; Ph off: 615455; resi: 617316.

PRASAD, Chalasani Babu Rajendra: Mg Dir, C B R Hatcheries Pvt Ltd; b 21 June 47. Ed: Matric. Add off: 4th Floor, Subhodaya Apartments, YMCA Lane, Boggul Kunta, Hyderabad 500001; resi: H No 1-2-593/23, Gagan Mahal Colony, Domalguda, Hyderabad 500029; Ph farm: 48192; resi: 66774.

PRASAD, Jagdish: Chmn & Mg Dir, Asian Agro Farms India Ltd. Add off: PB No 73, Dehradun 248001; Ph off: 26434; farm: 25936; resi: 25362.

PRASAD KUMMAYA: Chief Exec, Esbece Hatcheries; b 19 Jan 46. Ed: BSc, 67, Kerala; DBIM, 74, Delhi. Add off: D5/D8, First Floor, Gemini Parsn Commercial Complex, 121 Mount Rd, Madras 600006; resi: "Laxmi Niwas", 19 Iyyappa Nagar, Madras 600111; Ph off: 455784; resi: 427025.

PRASAD, Dr Rameshwar: Poul Farmer; b 31 Dec 10. Ed: MBBS, 36, Bombay; FRCS, 40, England. Add: Nagina Kothi, Ajmer 305001, Raj; Ph: 21842.

PRASAD, Yogendra: Ex Anim Hus Commissr, GOI, New Delhi; b 4 Dec 22. Ed: MSc (Zoology), 44, MRCVS. Add: 184, Patliputra Colony, Patna 800013; Ph: 63315.

PRIT PAL SINGH: Mg Partner, Desh Sewak Industries, Add: 212 Nangal Kotli, Bank of Baroda St, Mandi, Gurdaspur 143521.

PUNJ, Dr Madan Lal: Proj Coordinator, All India Coordinated Res Proj (Agri By-

products); b 20 Nov 44. Ed: BSc (Agri & AH), MSc (Agri & AH), PhD (Biochem). Add off: National Dairy Res Inst, Karnal 132001, Haryana; resi: 265 Old Housing Board, Karnal; Ph off: 4293 (PP).

PUNTAMBEKAR, Hemant: Tech Dir, Hardcase Engineering Works Pvt Ltd; b 31 Oct 47. Ed: BE, Hyderabad. Add off: 5-3-325, Lalji Meghji Compound, Mahatma Gandhi Rd, Secunderabad 500003; resi: 101 Jeera Compound, Secunderabad 500003; Ph off: 73567, 73015; resi: 76972.

PURI, Raghuwansh Kumar: Pres, Kwality Farm, Pune; b 19 Jan 17. Ed: BA, 36. Add off: Aundh, Pune 411007; Ph off: 58099.

Q

QURESHI, Ahsan Elahi: Mg Partner, Standard Bone Manure; b 14 Nov 30. Ed: BSc, 51, Aligarh. Add off: PB No 22, Rampur Marg, Hapur 245101, UP; resi: White House, Buland Shahr Rd, Hapur; Ph off: 2726; resi: 2029.

R

RADHAKRISHNAN, Dharmarao: Prop, Livestock Feed & Equipment Co; b in 29. Ed: BSc, 49, Madras. Add off: 202 Poonamallee High Rd, Madras 600029; resi: 2458 Anna Nagar, Madras 600040; Ph off: 422349, 421243; resi: 613946.

RAGHUNANDAN SINGH: Mg Partner, Agrovet Industries; b 6 July 48. Ed: BVSc & AH, 70. Add off: 8-P Industrial Area, Kokar, Ranchi; resi: Yarpur House, Sati Mandir Rd, Ranchi; Ph off: 23947; works: 24947; resi: 24408.

RAGHUNATHAM, I: Sr Consultant, AP State Meat & Poul Dev Corpn Ltd; b 28 Mar 35. Ed: BVSc, 58, Osmania. Add off: Shantinagar, Hyderabad 500028; resi: 1-8-726/3/4 Nallakunta PO, Hyderabad 500044; Ph off: 36681; resi: 66946.

RAGHUNATHAN, Kummaya: Dir of AH, Pondicherry; b 11 June 39. Ed: BVSc, 61, Madras; NDPH, 69, IVRI; Special International Training Course in Poul Husbandry, 71, Australia. Add off: Pondicherry 605001; resi: 'Surabhi', 14 Satyanagar PO Saram, Pondicherry 605013; Ph off: 4228; resi: 6196.

RAHMAN, Dr Sira Abdul: Prof of Parasitology, Vet Coll, Hebbal; b 14 Feb 44. Ed: BVSc, 65, Mysore; MVSc, 69, Madras; PhD, Univ of Queensland, Australia. Add off: Dept of Parasitology, Vet Coll, Univ of Agril Scs, Hebbal, Bangalore 560024; resi: 123, 7th Main Rd, IV Block (West), Jayanagar, Bangalore 560011; Ph off: 365383; resi: 41200.

RAJ, Vincent P: Sr Sales Offr, Deejay Hatcheries, Consumer Product Div; b 16 June 55. Ed: BSc, 74, Bangalore; DBA, 77, Bangalore. Add off: 3rd Floor, St Patricks Complex, Brigade Rd, Bangalore 560025; Ph off: 562738.

RAJA, Jagdish: Prop, Jagriti Poul Farm, Jagriti, Ramagondanahalli,PO Whitefield, Bangalore 560066; Ph: 290 (Whitefield).

RAJA REDDY: Poul Consultant; Prop, Ennar Krishi Farm & Mg Dir, Bangalore Best Veterinary Products Pvt Ltd. Add: Gottigere PO, Bannerghatta Rd, Bangalore 560076; Ph: 41199.

RAJAL RAO, C: Mg Dir, AP State Meat & Poul Dev Corp Ltd; Ed: BVSc, PG (AH). Add off: Directorate of AH, Shantinagar, Hyderabad 500028; resi: 2-2-11118/A Tilaknagar, New Mallepally, Hyderabad 500001; Ph off: 36856; resi: 53418.

RAJAMANI, C: Poul Farmer; b 5 Jan 45. Ed: SSLC; Stockman Course, 62, Madras. Add off: Sri Kumaar Poultry Marketing Centre, 28B3, Vasantha Rd, Dharapuram 638656; resi: Shri Kumar Poultry Farm, Alangiam Rd, Kondarasampalayam, PO Dharapuram 638656, Periyar Dist; Ph:433.

RAJMANE, Bhimashankar Virsangappa: Assoc Prof, Dept of Poul Sc, Bombay Vet Coll; b 4 June 41. Ed: BVSc & AH, 71, Bombay; MVSc, 77, High Level Inservice Poultry Management & Economics, 73, Feed Analytical Techniques, 80. Add off: Parel, Bombay 400012; resi: Staff Quarters, Bombay Vet Coll, Parel, Bombay 400012; Ph resi: 447827.

RAJU, Patsamatla Suryanarayana: Mg Dir, Royal Hatcheries Pvt Ltd; b 8 July 41. Ed: BSc, 61, Andhra Univ. Add off: 6-3-790/4B, Ameerpet, Hyderabad 500016; resi: Miyapur vill, via Ramachandrapuram, Hyderabad 500032; Ph off:224224; resi: 34, 48 (Ramachandrapuram).

RAM SINGH: Partner, Dayal Poultry Appliances. Add: WZ 16 Lajwanti Garden, New Jail Rd, New Delhi 110046; Ph: 522081, factory: 590393.

RAMA RAO, Kothapalli: Mg Dir, Modern Roofings Ltd & Chmn, Pulp n' Pack Pvt Ltd; b 15 July 34. Add: Modern Roofings Ltd,

Tadimalla 534305, AP; resi: Gandhinagar, Nidadavole 534301; Ph off: 31 (Tadimalla); resi: 2 (Nidadavole).

RAMABHADRAN, V: Dir, Southern Powersystem Pvt Ltd. Add off: 5 Smith Rd, Madras 600002; Ph off: 87425, 810653; resi: 73403.

RAMACHANDRA REDDY, K: Pres, Andhra Pradesh Poul Fedn & Vice-Pres, All India Poul Farmers' Assn, 3-4-615 Narayanguda, Hyderabad 500001; Ph: 35492.

RAMAKRISHNAN, Dr A: Prof & Head, Dept of Poul Sc, Coll of Vet & Anim Scs, Mannuthy; b 1 July 36. Ed: BVSc, Dip in Nutrition; MSc (Poul Sc), Specialized training in Applied Nutrition at M S Univ, Baroda; PhD, APAU. Add off: Kerala Agril Univ, Mannuthy 680651, Trichur Dist, Kerala; resi: Anand, Shanthi Nagar, Mannuthy 680651; Ph off: 25237.

RAMAKRISHNAN, R: Business Exec, Regal Hatcheries; b 21 May 42. Ed: BSc, 62, Madras. Add off: 12/66 Idigarai Post, Coimbatore 641031; Ph off: 89210.

RAMANA RAO, Narahari Venkata: Assoc Prof & Head, Dept of Poul Sc, Coll of Vet Sc, Tirupati; b 10 Mar 25. Ed: GMVC, 49, BVSc, 50, Madras; PG, 58, IVRI, MSc (Poul), 70. Add off: Coll of Vet Sc, Tirupati 517502; resi: 18-2-245 Akarampalle Rd, Tirupati 517501; Ph off: 2531.

RAMAPPA, Dr Bangalore Sanjeevappa: Chief Scientific Offr (Anim Sc), Head, Poul Sc Dept, Univ of Agril Scs, Bangalore; b 11 July 29. Ed: BSc (Agri), 53, Mysore; MS (Poul Sc), 59, Connecticut, USA; PhD, BCKVV. Add off: PB No 2477, Hebbal, Bangalore 560024; resi: A/10 UAS Qrs; Ph off: 365383 Ext 11; resi: 361023.

RAMASAMY, Dr V: Mg Partner, Medicine India Pharmaceuticals; b 1 July 42. Ed: BVSc, 66, Madras; MVSc, 69, Madras; PhD, 74, TNAU. Add off: 7-A Sannadhi St, Thiruvanmiyur, Madras 600001; resi:H51/1 Kamraj Nagar, Madras 600041; Ph off: 25385; resi: 415099.

RAMASWAMY, K J: Partner, Poultry & Dairy Farm. Add: 158 Linghi Chetty St, Madras 600001; Ph off: 25351;resi: 413665.

RAMESH CHANDER: Partner, New Delhi Feed Mills. Add: Vill Chattarpur, New Delhi 110030; resi: B-6, Gitanjali Enclave, New Delhi 110017; Ph off: 651535, 669079.

RANAWAT, Rambhanwar Singh: Mg Partner, Ranawat Poul Farm, Udaipur; b 28 Oct 35. Ed: MA, 58. Add: Hiran Magri, Udaipur 313001; Ph: 2059.

RANGARAJ, S: Dir of AH, Tamil Nadu; b 12 Oct 28. Ed: BVSc, NDPH. Add off: Central Office Bldgs, Block II, Creams PO, Madras 600006; Ph off: 454214, 450170 Ext 47; resi: 611639.

RANGNEKAR, Avinash Chandrashekar: Prop, Avees International & Mg Partner, Avipharma; b 19 Mar 59. Ed: BA, 79, Bombay. Add off: 351/353 B N Pai Marg, Bombay 400010; resi: 6 Club Bldg, 292 Bellasis Rd, Bombay 400008; Ph off: 866950, 8510502; resi: 890419.

RANJAN, Shailesh: Proj Offr (Dep Dir), Poul Production Programme (AH Dept), Ajmer; b 27 Sept 36. Ed: BVSc & AH, 58, Raj Univ ; PG Poul, 64, Udaipur Univ (Pub Admn), 82, Raj Univ; Dip Journalism, 83, Raj Univ. Add off: Shastri Nagar, Ajmer 305006; resi: 63 Adarsh Nagar, Ajmer 305001; Ph off: 21993; resi:20895.

RANJAN, Dr Shashi: Dir, Central Poul Breeding Farm, GOI, Bhubaneswar; b July 48. Ed: BVSc & AH, 68, Ranchi; MVSc, 72; PhD, 74, Leipzig. Add off: CPBF, Bhubaneswar 751013; Ph off: 51875, 55735.

RAO, Banda Vasudev: Mem, International Egg Commission; Chmn, National Egg Coordination Cttee; Chmn, National Forum for Rural Dev;Trustee, 'Savadam Trust'; Pres, Maharashtra State Poul Assn; & Mg Dir, Venkateshwara Hatcheries Pvt Ltd; b 6 Nov 35. Ed: Dip in Poul & Vet Scs. Add off: 13/6 Milestone, Panshet Rd, PC IAT, Girinagar, Post Bag No 1, Pune 411025; resi: 104 National Coop Housing Soc, Baner Rd, Aundh, Pune 411007; Ph off: 442244, 442748, 442561, 442663, 445908; resi: 53443-4.

RAO, Dr Barat Someswara: Dep Commr (Poul), GOI; b 5 Sept 36. Ed: BVSc & AH, 59, Bihar; MVSc, 62 (IVRI), Agra; MS, 67, PhD, 70, Minnesota, USA. Add off: Min of Agri, Deptt of Agri & Coop, Krishi Bhawan, New Delhi 110001; resi: C-308 Pragati Vihar Hostel, Lodi Rd, New Delhi; Ph off: 381507.

RAO, K Purnachandra: Prop, Sree Balasubrahmanya Poul Farm. Add: Mopidevi PO 521125, AP; Ph: 32.

RAO, M V: Rural Dev Offr, State Bank of India, LHO, New Delhi; b 2 July 43. Ed: BVSc & AH, 66, MVSc (Eons), 68, Jabalpur. Add off: Parliament St, New Delhi 110001; resi: A-41 NDSE, Part I, New Delhi 110049; Ph: 312641.

RAO, Dr Pemmaraju Venkateswara: Prof & Head, Dept of Poul Sc, Coll of Vet Sc; b 26 Aug 33. Ed: BVSc, 57, MVSc, 60, PhD, 67. Add: APAU, Rajendra Nagar, Hyderabad 500030; Ph: 48323, 48161 Ext 269.

RAO, Satyanand: Production Mgr, Vyna Organic Chemical Industries Ltd; b 7 Aug 52. Ed: MSc, 75, Bombay. Add off: 507 Embassy Centre, Nariman Point, Bombay 400021; resi: 10 Aaram Nagar-1, Versova Post, Bombay 400061; Ph off: 233896, 231258; resi: 573455.

RAO, Vipperla Chencha: Mg Partner, Coastal Hatcheries; b 6 Nov 27. Ed: BSc, MBBS, MD. Add off: Shop No 3, ATC Bus Complex, Visakhapatnam530020; resi: Plot No 10, Lausous Bay, Visakhapatnam 530017; Ph off: 66273; resi: 64756; farm: 21 (Aganampudi).

RAO, Yedidi Kameswara: Prop, Agvet Industries; b 19 Aug 36. Ed: BSc, 55; BVSc (AH), 59; MVSc, 61; Postgraduate Dip in Business Management, 72. Add factory: 14-41/1, Prashant Nagar, Uppal, Hyderabad 500039; resi: Plot No 6, Kohinoor Apartments, 1-11-252/5/5 Motilal Nagar, Begumpet, Hyderabad 500016; Ph factory: 851017; resi: 72247.

RAUT, Dr K C: Sr Scientist, Ind Agri Statistics Res Inst; b 13 Mar 26. Ed: PhD in Agril Statistics, 75, IARI, New Delhi. Add off: Pusa, New Delhi 110012; resi: Qr No 1 (Type V), IASRI Campus, New Delhi 110012; Ph off: 587121.

RAVINDER REDDY, B: PR Mgr, Venkateshwara Hatcheries Pvt Ltd. Ed: BSc, 75, Bachelor & Master of Commn & Journalism, 78-79, Osmania. Add off: 13/6 Milestone, Panshet Rd, PO IAT, Girinagar, Pune 411025; resi: Apartment 8, Mayure Housing Coop Society Ltd, 999/B/2 Navipeth, Pune 411030; Ph off: 442244, 442748, 442561, 442663; resi: 444586.

RAVI SHANKAR BABU, B: Prop, Esbece Hatcheries; b 31 Dec 55. Ed: BCom, 74, Madras. Add off: D5/D8, First Floor,Gemini Parsn Commercial Complex, 121 Mount Rd, Madras 600006; resi: No 25 Cenetoph 2nd Lane, Madras 600018; Ph off: 475784; resi: 30505.

RAY, A K: Mgr, National Insurance Co Ltd; b 29 Oct 29. Ed: ICom, 48, Calcutta; ACII, London. Add off: 3 Middleton St, Calcutta 700071; resi: P-804, Block-P, New Alipur, Calcutta 700053; Ph off: 448336, 432658; resi: 454544.

REDDY, Dr Chigarapalli Vijayasekara: Dean, Coll of Vet Sc; b 1 June 28. Ed: BVSc, 52, Madras; MS, 61, Washington; PhD, 64, Kansas. Add off: APAU, Rajendranagar, Hyderabad 500030; resi: 207/3 RT Saidabad Colony, Hyderabad 500659; Ph off: 48146, 48161 Ext 222; resi: 59369.

REDDY, Dr K Amrutha: Dir, Central Poultry Breeding Farm, Bangalore; b 9 Oct 44. Ed: PhD. Add off: Central Poultry Breeding Farm, GOI, Hessarghatta, Bangalore 560088; Ph: 384303 (Bangalore), 36 (HGT); resi: 56 (HGT).

REDDY, Mopati Venkataramana: Mktg Mgr, Micro Labs Pvt Ltd; b 1 Mar 33. Ed: BVSc, 55, MVSc, 61, Dip in Mktg Mgmt, 76, Madras. Add off: 303, 'A' Wing, Queen's Corner Apartments, 3 Queens Rd, Bangalore 560001; resi: 52, III Cross, Indiranagar, Second Stage, Bangalore 560038; Ph off: 26785, 79609; resi: 567755.

REKHI, Surinder Singh: Prop, Rekhi Poultries; b 23 Aug 37. Ed: BE (Mech). Add off & resi: Mehrauli-Gurgaon Rd, Andheria Bagh, Mehrauli, New Delhi 110030; Ph: 650809, 651364.

RODRIGUES, Eric J: Mgr, Consumer Mktg, Deejay Group; b 8 Aug 50. Ed: BA, 73, Bombay; DBM, 75. Add off: 3rd Floor, St Patrick's Complex, Brigade Rd, Bangalore 560025; resi: 326 Koramangala Ext, 5th Main, Stage I, Bangalore 560034; Ph off: 562738, 562749; resi: 566160.

RONGSEN AO, Dr A: Jt Dir (General), Vet & AH Dept, Nagaland; b 1 Mar 30. Ed: GVSc & AH, 54, Assam. Add off: Kohima 797001; Ph off: 704; resi: 576.

ROSARIO, Keith J: Sr Mgr, Poul Operations, Deejay Group; b 23 May 43. Ed: BSc, 63, Nagpur; Dip in Mktg, 69, BIET. Add off: St Patrick's Complex, 3rd Floor, Brigade Rd, Bangalore 560025; resi: 5E Gulmohar Mansions, 9 Convent Rd, Bangalore 560002 Ph off: 562738, 562749; resi: 568187.

ROY, Dr D K: Asst Dir of AH (Poul), Dte of AH, Tripura. Add: Agartala 799001; Ph off: 994.

ROY, Dr Dhruba Jyoti: Zonal Coordinator, ICAR Lab to Land Programme, Zone II; b 5 Dec 34. Ed: BVSc, 58, Calcutta; MVSc, 60, PhD, 65, Agra. Add off: BCKV, Mohanpur, Nadia 741246; resi: DC 1/4 Golf Green Complex, Calcutta 700045; Ph resi 723585.

ROY, K C: Mg Dir, Contai Golden Hatcheries (Eastern) Pvt Ltd; b 2 Sept 39. Ed: BCom 59, Calcutta. Add: 8/4B, Dr Sundari Mohan Ave, Calcutta 700014; Ph off & resi: 297019; farm: 164 (Contai).

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ROY, Prasun Kumar: Dir, Arambagh Hatcheries Ltd; b 22 Dec 49. Ed: MSc, 73, Calcutta. Add off: 59B Chowringhee Rd, Calcutta 700020; resi: Pallishree, PO Arambagh, Dist Hooghly; Ph off: 449324, 432179; farm: 15 (ARM); resi: 27 (ARM).

ROY, Ranjit Kumar: Mg Dir, Animal Feeds Dairies & Chemicals Ltd; b 20 June 51. Ed: MSc (Physics), 72, Utkal Univ. Add off: Jharapada, Bhubaneswar 751006; resi: Plot No 448A, Jharapada, Bhubaneswar 751006; Ph off: 53246; resi: 55246.

ROY, Tushar Kanti: Addl Dir of AH, West Bengal; b 19 Oct 40. Ed: BVSc & AH, 62, Calcutta; NDPH, 72, IVRI. Add off: Writers' Bldgs, Block 'F', 4th Floor, Calcutta 700001; resi: Govt Housing Estate, Block-24, Flat-2, 131 N S C Bose Rd, Calcutta 700040; Ph off: 22-1681 Ext 364; resi: 424091.

S

SABNIS, Shreekant Ramakrishna: Poul Consultant; b 4 July 16. Add: Poul Dev Scheme, Vidyamandir, Narayangaon 410504, Pune Dist.

SACHASAUDA, Harnam Singh: Poul Farmer; b 11 Aug 05. Ed: BA. Add off: 2B 1101, Chandigarh 160016; resi: 115, Sector 16, Chandigarh; Ph: 26737.

SACHDEV, Anand Prakash: Chief Tech Dir, Blue Cross Consultants & Tech Mktg Adviser, Essex Farms Pvt Ltd; b 27 June 37. Ed: BVSc, 58, Jabalpur; PGAH, 59, IVRI. Add off: 4 Aurobindo Marg, New Delhi 110016; resi: Q-41 Rajouri Garden, New Delhi 110027; Ph off: 652789; resi: 502929.

SADAGOPAN, Villuppanoor Reghunathan: Prof & Head, Dept of Nutrition & Feed Technology, CARI, Izatnagar; b 21 Feb 38. Ed: BVSc, 62, Madras; MVSc, 64, Agra; PhD, 70, Agra; Post doctoral training in Poul Nutrition, Edinburgh, UK. Add off: IVRI Campus, Izatnagar 243122; resi: 7, IVRI Campus, Izatnagar 243122.

SADANANDA RAO, C: Poul Products Dealer; b 8 Apr 44. Ed: BA, Madras. Add off: 18 Bangaru Naidu Colony, Virugambakkam, Madras 600092; resi: 22 Soundrapandian Salai, Ashok Nagar, Madras 600083; Ph off: 424926; resi: 426270.

SAGGU, Surjit Singh: Partner, Modern Research & Breeding Farm; b 3 June 45. Ed: ATS (Poul), Spl in chick sexing, Japan. Add off: 1650-51, DLF, Chattarpur, New Delhi 110030; Ph off: 651665.

SAH, Dr Rajendra Lal: Scientist, Avian Pathology, Div of Avian Diseases, IVRI; b 30 May 40. Ed: BVSc & AH, 63, Agra; MVSc, 65, Agra; PhD (Vet Pathology), 77, Agra. Add off: IVRI, Izatnagar 243122, UP; resi: A-6/8 IVRI Campus, Izatnagar 243122; Ph off: 75510.

SAHA, Akhil Chandra: Addl Dir of Vet Services, West Bengal; b 1 Oct 32. Ed: BVSc, MVSc, Calcutta. Add off: Dte of Vet Services, New Secretariat Bldgs (3rd Floor), 1 Kiron Shankar Roy Rd, Calcutta 700001; resi: 64 Paikpara Row, Calcutta 700037; Ph off: 236271 Ext 81.

SAHI, G S: Mgr, Vet Products, Intercare Ltd; b 7 Oct 40. Ed: BVSc & AH, 63, Postgraduate, 68, SMTC (Mktg), 71. Add off: Pragati Bhawan, Mezzanine Floor, Jai Singh Rd, New Delhi 110001; resi: 6/5 West Patel Nagar, New Delhi 110008; Ph off: 320961, 323209; resi: 588021.

SAHNI, Ram Nath: Pres, Bihar Poul Farmers Assn; Sec, Patna Poul Farmers Coop Soc Ltd; & Prop, Patliputra Poultry Breeding Farm; b 30 Apr 30. Add: 12-D, Shri Krishnapuri (near Lalita Hotel), Patna 800001; Ph off: 22252; farm: 7304.

SAIKIA, Dr Anwaruddin: Prof & Head of Anim Nutrition & Associate Dir of Res, Assam Agril Univ; b Apr 27. Ed: MSc, PhD, Post Doctorate (Rowett Res Inst). Add off: Coll of Vet Sc, Assam Agril Univ, Khanapara, Guwahati 781022; Ph: 87858.

SAIKIA, Dr J C: Dep Dir (Poul), AH & Vet Dept, Assam. Add: M C Rd, Guwahati 781003; Ph off: 25691.

SAKURE, Harish: Prop, Sakure Hatchery; b 1 July 39. Ed: BVSc, Postgraduate, 60, Jabalpur. Add: Hirapur, PO Tatiband, Raipur 492001, MP; Ph: 27311, 27542.

SALAHUDDIN, Anser Mohammad: Mg Dir, Alved Pharmaceuticals Pvt Ltd; b 21 Dec 38. Ed: BVSc, 60. Add off: 5 Chandra Bagh Ave, Radhakrishnan Rd, Madras 600004; resi: No. 8, 14th St, IV Sector, K K Nagar, Madras 600078; Ph off: 89927.

SALIMUDDIN: Prop, Egline Poul Farm, Meerut; b 7 July 35. Ed: BA, 55, LLB, 61, MA (Eng Lit), 67. Add off: 257 Ismail Nagar, Meerut 250002, UP; Ph off: 76796.

SALPEKAR, Jatinder: Mktg Mgr, BASF India Ltd; b 20 Apr 50. Ed: BSc (Hons), 72, MBA, 74, Delhi. Add off: Maybaker House, Sudam Kalu Ahire Marg, PO Box 19108, Bombay 400025; resi: 113/B Paschim Apartments, K Dhuru Rd, Bombay 400028; Ph off: 4220703.

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SAMAL, Surendra: Gen Mgr (North Zone), Venkateshwara Hatcheries Pvt Ltd; b 10 Sept 45. Ed: BVSc & AH, 68, OUAT, Bhubaneswar; MVSc & AH, 73, JNKVV, Jabalpur. Add off: Northern Hatcheries Pvt Ltd, Vill Sasrali, PO Jodhewal Basti, Rahon Rd, Ludhiana 141007; Ph off: 36796; resi: 36593.

SAMPATH KUMAR, K R: Egg Merchant; b 30 Dec 48. Ed: BCom, 70, Bangalore. Add off: Kasi Egg Centre, No 228 Cottonpet, Bangalore 560053; resi: 37, 1st Cross Subramanya Lane, Akkipet, Bangalore 560053; Ph off: 606357; resi: 28775.

SAMPRADA SINGH: Mg Dir, Alkem Laboratories Pvt Ltd; b 2 May 30. Ed:BCom,51,Patna. Add off: 702/A Poonam Chambers, Dr A B Rd, Worli, Bombay 400018; resi: 31 Suraiya Apartments, Sir Pochkhanwala Rd, Worli, Bombay 400018; Ph off: 395653, 897702; resi: 4226692.

SANDHU, Gamdoor Singh: Sales & Mktg Mgr, Punjab Poul Dev Corpn; b 15 Sept 29. Add off: 2419-20 Sector 22-C, Chandigarh 160022; resi: 1281 Sector 15-B, Chandigarh 160015; Ph off: 20698.

SANGHVI, A P: Mg Dir, Barakaso Pvt Ltd. Add off: I B Patel Rd, Gautam Chemical Compound, Goregaon (East), Bombay 400063; Ph off: 315420.

SANTAMARIA, Oswald: Materials Mgr, Deejay Group; b 5 Oct 42. Ed: MSc, 65, Bangalore. Add off: 3rd Floor, St Patrick's Complex, Brigade Rd, Bangalore 560025; resi: 2/1 Dhanaraj Kataria Rd, Cox Town, Bangalore 560005; Ph off: 562738, 562749.

SANYAL, Bikramjit: Jt Adviser (AH), Planning Commn; b 1 Feb 31. Ed: GVSc, 51, BSc, 59, BVSc & AH, 68, Calcutta; NDAH, 66, IVRI; PG Trg at FAO, Rome (68), and UK (71-72). Add off: 250 Yojana Bhavan, Sansad Marg, New Delhi 110001; resi: IV/159, N W Moti Bagh, New Delhi 110021; Ph off: 389742; resi: 608005.

SARDESHPANDE, Dr Prabhakar Dattraya: Associate Dean, Bombay Vet Coll; b 20 Dec 29. Ed: BSc (Vet) Hons, 51, Bombay; MVSc, 62, Bombay; PhD, 69, Bombay; FRVCS, 66, Stockholm, Sweden. Add off: Parel, Bombay 400012; resi: 8/93 Ramkrishna Nagar, S V Rd, Khar, Bombay 400052; Ph off: 441180.

SARKAR, Dr Sachindra Chandra: Dep Dir of AH (Anim Health), Govt of Tripura; b 14 July 34. Ed: BVSc, 58, Osmania Univ, MVSc, 61, IVRI, PhD, 79, PAU. Add off: Dte of AH, Old Dairy Bldg, Kunjaban, Agartala 799006; resi: 12 Banamalipur, Agartala 799001.

SARKAR, Dr Samir Kumar: Gen Mgr, Induss Feeds, Calcutta; Part-time Lecturer, BCKV; b 15 May 37. Ed: BVSc & AH, 59, Calcutta; MVSc, 67, IVRI; PhD, 82,BCKVV. Add off: 238/B, Acharya J C Bose Rd, Calcutta 700020; resi: 102 Southern Avenue, 7th Floor, NE, "Sarobar", Calcutta 700029; Phone office: 441962; residence: 460473.

SARMA, Dr P L N: Sr Scientist, AICRP on Poul for Eggs, AP Agril Univ; b 8 June 30. Ed: BVSc, Madras; MVSc, Agra; PhD (Anim Breeding), Kansas, USA. Add off: Rajendranagar, Hyderabad 500030; resi: 1-2-288/17, Domalaguda, Hyderabad 500029; Ph off: 48316; resi: 61332.

SATAPATHY, Dr Natabar: Mgr, Anim Feeds, Tata Oil Mills Co Ltd; b 10 Nov 33. Ed: BVSc, 58, Osmania; MS, 62, PhD, 64, Maryland, USA. Add off: Bombay House, Homi Modi St, Bombay 400023; resi: 17 May Flower, Carmichael Rd, Bombay 400026; Ph off: 259131; resi: 389684.

SATHE, Dr Balwant Shankar: Gen Mgr (Tech), NABARD; b 19 Oct 34. Ed: BVSc, 55, Sagar; PGAH, 57, IVRI; Associateship, 60, IVRI; PhD, 65, New England, Australia; Post Doctoral, 66, British Columbia, Canada. Add off: Shriniketan, Dr Annie Besant Rd, PB No 6552, Worli, Bombay 400018; resi: 7 Nav Parijat, Plot 40, TBCHS, Andheri (E), Bombay 400099; Ph off: 4929956; resi: 6300369.

SATYANARAYANA, Pinnamaneni: Prop, Essen Enterprises; Mg Partner, Balaji Feed Supplements & Balaji Agencies; & Mg Dir, The Standard Roofings Pvt Ltd; b 8 July 40. Add off: Peddibhotlavari St, Governor Pet, Vijayawada 520002; resi: 40-1/1-34 Mogalrajapuram Rd, Vijayawada 520002; Ph off: 63201, 63931; resi: 74110.

SATYANARAYANA REDDY, Lankala: Vet Offr (Tech), AP State Meat & Poul Dev Corpn Ltd; b 29 Dec 46. Ed: BVSc & AH, 68, MVSc (Poul Sc), 83, APAU. Add off: Shantinagar, Hyderabad 500028; resi: B-27, F-4, Vigyanpuri Colony, Vidyanagar, Hyderabad 500044; Ph: 36856.

SAWHNEY, Pramod: Prop, Sawhney Poul Farms; b at Sialkot (Pakistan). Ed: BSc. Add: 196 New Colony, Gurgaon, Haryana; Ph: 20528, 21091.

SAWHNEY, Roshan Lal: Partner, Veekay Farms. Add off: Plot No 28, St No 11, MIDC Area, Andheri (E), Bombay 400093; farm: Vill Sate, Post Vadgaon Maval,Bombay-Pune Rd, Dist Pune 412106;Ph off:6048540,6301503; farms: 406 (Talegaon), 33 (Kamshet).

SAXENA, K G: Poul Breeder & Exhibitor; b 21 July 36. Add off: Medical Curator, Incharge Blood Bank, Jawaharlal Nehru Hospital, Ajmer, Raj; Ph off: 21521.

SAXENA, Santosh Kumar: Livestock Dev Offr (Poul), Disease Investigation Laboratory (Poul), Dte of AH, UP; b 12 June 42. Ed: BSc, 60, BVSc & AH, 66, Agra. Add off: Gokaran Nath Rd, Badshahbagh, Lucknow 226007; resi: 511 Rajendranagar, Lucknow; Ph off: 44989.

SAXENA, Dr Suresh Chandra: Head, Div of Anim Production, ICAR Complex for NEH Region, Shillong; b 26 Mar 46. Ed: BVSc, 67; MVSc, 69; PhD, 77. Add off: Mawlai, Shillong 793008, Meghalaya; resi: Bishnupur, Near Shankar Dev Coll, Shillong; Ph off: 23748.

SEBASTIAN, John L: Mg Partner, The India Poultry Farm. Add off: Vimala Bldg, 5 Residency Rd, Bangalore 560025; resi: 7 D'Costa Layout, Bangalore 560084; Ph off: 50539; resi: 562135.

SEHGAL, Prem: Partner, Nectarine Pharmacy. Add: Bhagirath Palace, Delhi 110006; Ph: 234264, 235915, 236587.

SEKHOSE, S: Dir, AH & Vet Services, Nagaland; b 1 Sept 33. Ed: GVSc & AH, 59, Assam; NDPH, 61, IVRI; PG, 69, Guelph, Canada; Dip L P, 75, East Germany. Add off: Kohima 797001; resi: Vet Compound, Kohima; Ph off: 780; resi: 783.

SELVARAJ, P: Chmn & Mg Dir, Selvam Hatcheries (P) Ltd; Mg Dir, P P Farms (P) Ltd; b 3 May 41. Ed: BVSc, 65, Madras. Add off: 41 President Venkat Rao Rd, PB No 18, Namakkal 637002, Salem Dist; resi: Pappanaickenpatty, Mudalaipatti PO 637003, Namakkal;Ph:2976,2776,2622.

SEN, Arup: Partner, Apsara Starchick Breeders; b 14 Sept 52. Ed: BSc, 73, Calcutta; PGDM, 78, Indian Institute of Management, Calcutta. Add off: 16 Palm Avenue, Calcutta 700019; resi: 17, Dover Rd, Calcutta 700019; Ph off: 434004, 431672; farm: FALTA 21; resi: 470948.

SENGAR, Dr Om Pratap Singh: Head, Dept of AH & Dairying, R B S Coll; b 15 Oct 29. Ed: BSc (Agri), 48, MSc (Zool), 50, MSc (Agri), 57, Agra; MS (Anim Sc), 59, Illinois, USA; PhD, 67, Agra. Add off: Bichpuri, Agra 283105; resi: Staff Qrs, R B S College, Agra.

SENGUPTA, Barunesh Ranjan: Addl Dir of Vet Services, West Bengal; b 1 July 22. Ed: GVSc, 45, Postgraduate Courses, 48, 51, 61, 63, IVRI. Add off: Dte of Vet Services, New Sectt Bldgs (3rd Floor), 1 K S Roy Rd, Calcutta 700001; resi: 194/A, Bangur Avenue, Calcutta 700055; Ph off: 236271 Ext 81; resi: 573288.

SESHAIAH, M P: Dir, Poul Operations, Venkateshwara Hatcheries Pvt Ltd; b 1933. Ed: BA. Add off: Subhodaya Apartments, 3rd Floor, 4-1-1233, Boggulkunta, Abids, Hyderabad 500001; Ph off: 237254-5 236424;resi:559248;farm:57 (Thimmapur).

SESHASAYEE, Raman: Chief Exec, IEL Ltd; b 28 Oct 34. Ed: MA Econ, 57, Madras. Add off: Ennore Works, Ennore Express Highway, Ennore PO, Madras 600057; resi: Adyar Lodge, 5 Boat Club III Avenue, Madras 600028; Ph off: 555388, 555396; resi: 450110.

SETHI, Radhey Shyam: Mg Partner, Farm Equipment Enterprises & Diamond Agrovet Industries; b 15 July 42. Add: 32 DSIDC Industrial Complex,Jhilmil Taharpur, Shahdara, Delhi 110032; Ph off: 203426,202470; resi: 202319.

SETHI, Roshan Lal: Gen Mgr, Hafed Cattle Feed Plant; b 15 Apr 45. Ed: BSc (Engg), 68, BHU; PG Dip, 73, PG Dip, 75, Punjab. Add off: Sukhpura Chowk, Rohtak 124001, Haryana; resi: Hafed Cattle Feed Plant Campus, Sukhpura Chowk, Rohtak 124001; Ph off: 4709; resi: 3537.

SETHI, Dr S P: Proj Offr (Poul), NAFED. Add off: Sapna Bldg, 54 East of Kailash, New Delhi 110065; Ph off:6411937,6432401 (four lines); resi: 624682.

SETHURAMAN, S: Addl Dir of AH, Tamil Nadu; b 5 Mar 28. Ed: BVSc, 53, Madras; PG Course (Poul Husbandry), 62-63, Australia. Add off: Dte of AH, Central office Bldgs, Block II, Creams PO, Madras 600006; resi: AB 16 Anna Nagar,Madras 600040; Ph off: 450170; resi: 611866.

SHABBIR AHMED KHAN: Consultant, Poultry Advisory & Tech Services; b Aug 43. Ed: BSc (Agri), AHD, 66. Add: Soldiers Board Shopping Centre, Gurgaon 122001, Haryana; Ph: 2529.

SHAH, Arvind Amritlal: Mg Dir, Spectoms Engineering Pvt Ltd; b 15 Aug 42. Ed: M Tech, 65, IIT, Kharagpur. Add off: Purshottam Estate, Bahucharaji Rd, Baroda 390001; resi: 404/405 Darpan Apartments, Alkapuri, Baroda; Ph off: 559920, 559496; resi: 66653.

SHAH, Bansilal Mohanlal: Mg Partner, Kamadhenu Agro Chem Industries; b 17 Oct 32. Ed: BCom, 55, Bombay. Add off:

35 Western India House, Sir P M Rd, Fort, Bombay 400001; resi: Laxmi Mahal, 2nd Floor, Flat No 10, Bapubhai Vasi Rd, Vile Parle, Bombay 400056; Ph off: 258172, 258612; resi: 662845.

SHAIK IMAM: Chmn, Kasila Farms Pvt Ltd; b 22 Feb 30. Ed: BSc, 53, Osmania; MS (Bacteriology), 58, Nebraska, USA. Add off: 902 Paigah Plaza, Bashirbagh, Hyderabad 500029; resi: 34, Road No 8, Banjara Hills, Hyderabad 500034; Ph off: 223551; resi: 221199.

SHAN, M Q: Mgr (Coordination), National Egg Coordination Committee; b 20 Aug 47. Add off: 5H, Subhodaya Apartments, Boggulkunta, Hyderabad 500001; resi: 16-2-139/A, Behind Govt Press, Akber Bagh, Malakpet, Hyderabad 500036; Ph off: 237254, 236424; resi: 45144.

SHANTA KUMARI, Mrs P: Prop, Shanti Poultry Equipment Industries (Pachpedi), Jabalpur 482001; resi: H No 291/B, Upper Lines, Jabalpur.

SHANTI LAL VIJ:Partner, Faqir Chand Shanti Lal; b 11 Apr 39. Add off: WZ-19, Uggar Sain Market, Ashok Nagar, New Delhi 110018; resi: 4B/1 Tilak Nagar, New Delhi 110018; Ph off: 502231.

SHARDA, Dr Dharam Paul: Prof & Head, Dept of Anim Nutrition, HAU; b 15 Dec 21. Ed: LVP (Hons), 45, BVSc & AH, 56, MRCVS, 60, MS, 68, PhD, 71. Add off: HAU Coll of Anim Scs, Hissar 125004, Haryana; resi: 9/11 HAU Campus, Hissar; Ph off: 3621 Ext 256.

SHARMA, Durga Dass: Dir, AH Dept, Kashmir; b 28 July 32. Ed: BVSc & AH, 54, Bihar; FRVCS, 66, Sweden; Postgraduation in Lab Diagnostic Techniques, 67, Sweden. Add off: AH Dept, Gowkadal (Exchange Rd), Srinagar; resi: Qr No 56-J, Jawahar Nagar, Srinagar; Ph off: 72141; resi: 73766.

SHARMA, J P: Quality Control Offr, Cattle Feed Factory, MP State Coop Mktg Fedn Ltd; b 8 Aug 49. Ed: MSc, Agra. Add off: Dhamdha Naka, Durg 491001; Ph off: 2600 & 2767.

SHARMA, Dr M M: Specialist, CAPCO, Lucknow; Add off: 27/6 Ram Mohan Rai Marg, Opp Krishi Bhawan, Lucknow 226006; Ph: 33983; resi: 24472.

SHARMA, Prem Rattan: Dir of Vet Services, MP; b 10 Dec 33. Ed: BVSc & AH, Postgraduate Trg in Agri (Vet) Ext, USA. Add off: Tulsi Nagar, Bhopal 462005; resi: E 102/2 Shivaji Nagar, Bhopal; Ph off: 61680; resi: 61007.

SHARMA, Dr Rajendar Kanwar: Prof & Head, Dept of Ext Ed, HAU, Hissar; b 15 June 36. Ed: BVSc & AH, 59, Punjab; MSc, 67, PAU; PhD, 82, NDRI. Add off: Dept of Ext Ed, HAU, Hissar; resi: 9/49 New Campus, HAU, Hissar; Ph off: 3721/251.

SHARMA, Dr Ved Vrat: Prof & Head, Dept of Anim Prod, Dean, Postgraduate Studies, Raj Coll of Agri; b 27 Jan 30. Ed: BSc, 49, MSc, 51, PhD, 63, Minnesota, USA. Add off: Univ of Udaipur, Udaipur, Raj; resi: C-2 Durga Marg, Udaipur 313001; Ph off: 23312.

SHETE, Ganshyam: Mg Dir, Hardcase Engineering Works Pvt Ltd; b 21 Mar 22. Ed: BSc, Bombay. Add off: 5-3-325 Lalji Meghji Compound, M G Rd, Secunderabad 500003; resi: Plot No 10, Santoshimaa Colony, West Marredpally, Secunderabad 500003; Ph off: 73567, 73446; resi: 73015.

SHETE, Rajive: Sales Dir, Hardcase Engineering Works Pvt Ltd; b 21 Apr 57. Ed: BSc, Hyderabad; MBA, Ahmedabad. Add off: 5-3-325 Lalji Meghji Compound, M G Rd, Secunderabad 500003; resi: Plot No 10, Santoshimaa Colony, West Marredpally, Secunderabad 500003; Ph off: 73567, 73446; resi: 73015.

SHETTY, B Karunakara: Chief Mgr, Agril Dev Dept, Union Bank of India, Bombay; b 19 Jan 30. Ed: BSc (Agri), MSc (Agri), 61, Madras. Add off: 239 Backbay Reclamation, Nariman Point, Bombay 400021; resi: 18/15 Navajeevan Housing Soc, Mori Rd, Mahim, Bombay 400016; Ph off: 2024647; resi: 452605.

SHETTY, Dr Barkur S: Mgr, Agrochemicals Div, Agromore Ltd; Vice-Chmn, Pesticides Assn of India; b 19 Oct 26. Ed: BSc (Agri), DIH, MS, PhD, Minnesota, USA. Add off: Mysore Rd, Bangalore 560026; Ph off: 603624; resi: 352324.

SHETTY, Bollya Vivek: Mg Dir, Vyna Organic Chemical Industries Ltd; b 10 Oct 49. Ed: MCom, 77, Bombay. Add off: 507 Embassy Centre, Nariman Point, Bombay 400021; Ph off: 233896, 231258; resi: 572345.

SHETTY, Chandrahasa Niddodi: Exec Dir, Vyna Organic Chemicals Industries Ltd; b 3 June 50. Ed: MSc, MBA, 74, Bombay. Add off: 507 Embassy Centre, Nariman Point, Bombay 400021; resi: 45 Sea-Side, opp Jeet Nagar, Versova, Bombay 400061; Ph off: 233896, 231258; resi: 572104.

SHETTY, H B, Capt: Dir, AH & Vet Services, Karnataka; b 25 Dec 36. Ed: BVSc, 60, Madras. Add off: Multistoreyed Bldg, II Floor, Dr Ambedkar Rd, Bangalore 560001; resi: No C-29, Jeevana-bhimanagar, (PWD Qtrs),Bangalore 560017; Ph off: 27431; resi: 55850.

SHONEK, Brij Bhushan: Div Mgr (Vet), Sarabhai Chemicals; b 6 Nov 36. Ed: BVSc & AH. Add off: 337 Industrial Area 'A', Ludhiana; resi: B-1/434, Bhandari St, Civil Lines, Ludhiana; Ph off: 37381; resi: 30646.

SHOUKATHULLAH, Syed Mohammad: Dir Sales, Alved Pharmaceuticals Pvt Ltd; b 25 Dec 43. Ed: BVSc, 67, Madras. Add off: 5 Chandra Bagh Avenue, Madras 600004; resi: 31 Ayyam Perumal St, Royapettah, Madras 600014; Ph off: 849449.

SHRIDHAR, C R: Ex-General Manager, SKM's Energy Animal Feeds Pvt Ltd; b 29 Nov 43. Ed: BVSc, 66, Madras. Add off: Chavadipalayam Pudur Rd, Nanjaiuthukuli, Modakkurichi 638104, Tamil Nadu; resi (Erode): "Ruby Bldgs", First Floor, EVR St, Erode 638002; Ph off: 2663 (Modakkurichi), 49 & 63 (Nathagoundenpalayam).

SHRIVASTAVA, Basant Kumar: Prop, Tonolicks Industries; b 13 Dec 46. Ed: BVSc & AH, 73, JNKVV, Jabalpur. Add: 'Basant Mansion', 37 Shabad Pratap Ashram, Gwalior 474012; Ph off: 20422; fact: 8662; resi: 22280.

SHUKLA, Dr Rajnikant Kamalashanker: Prof & Head, Dept of Anim Genetics & Breeding, Vet Coll, Anand; & Offr Incharge, AICRP on Poul, Central Poul Res Station Poul Trg Centre; b 3 Aug 35. Ed: BSc (Vet) Hons, 58, Bombay; MSc (AH), 65, Magadh; PhD, 73, Gujarat Agril Univ. Add off: Vet Coll, Anand, Kheda Dist, Gujarat; resi: A/5 Vet Coll Staff Colony, Anand; Ph off: 3464; farm: 267.

SHYAM KUMAR: Mg Partner, Rachna Poultry Breeding Farms & Hatcheries; b 24 Jan 47. Ed: BCom. Add off-cum-resi: L-102 New Colony, Gurgaon, Haryana; farm: Vill Behrampur, PO Fazilpur, Dist Gurgaon; Ph off: 22065; resi: 21472.

SIDDIQUI, Safiuddin Mohammed: Associate Prof, Dept of Poul Sc, Coll of Vet Sc, AP Agril Univ; b 21 Sept 36. Ed: BVSc, 57, Osmania; MS, 62, Kansas, USA. Add off: Rajendranagar, Hyderabad 500030; resi: "Rewaq", 3-5-880 Himayatnagar, Hyderabad; Ph off: 48323; resi: 35674.

SIKANDAR LAL: Pres, Haryana State Poultry Farmers Federation & Prop, Satish Poul Farm; b 8 May 22. Add: 149 Model Town, Panipat 132103, Haryana.

SIKUND, Ravi: Mg Dir, North Star Marketing Pvt Ltd; Dir, North Star Agro Industries Pvt Ltd & North Star Special Steels Pvt Ltd; b 30 Aug 40. Ed: BSc. Add off: 407 Lakshmi Bhawan, 72 Nehru Place, New Delhi 110019; resi: 179 New Friends Colony, New Delhi 110065; Ph off: 6413130, 6430517; resi: 631290.

SINGH, B N: Dir, Alkem Laboratories Pvt Ltd; b 20 Nov 40. Ed: BA (Hons), 60, MA, 62. Add off: 702/A Poonam Chambers, Dr A B Rd, Worli, Bombay 400018; resi: 31 Suraiya Apartments, Sir Pochkhanwala Rd, Worli, Bombay 400018; Ph off: 395653; resi: 4226692.

SINGH, Dr Bhanu Pratap: Dean, Coll of Vet Sc and AH, C S Azad Univ of Agril & Technology; b Aug 37. Ed: MVSc, 61, PhD, 64. Add off: Mathura Campus, Mathura 281002; resi: Dean's Residence, Vet Coll, Mathura; Ph off: 3288; resi: 3214.

SINGH, Dr Brij Narayan: Exec Dir, MP State Livestock & Poultry Dev Corpn; b 12 Aug 49. Ed: BVSc & AH, 70, J N Agril Univ, Jabalpur; MVSc, 74, Jabalpur; PG (Anim Production & Management), 76, Vienna (Austria); Dr Med Vet (Hons), 77, Vienna. Add off: H-29, Nishat Colony, Bhopal; resi: G/137 Gautam Nagar, Bhopal; Ph off: 66090; resi: 67183.

SINGH, Harvansh: Chmn, UP Poul Farmers Assn; Prop, Sengar's Poul Farm, Kanpur; & Dir, Rabbani Community Dev Proj, Gwalior; b 1 Oct 38. Ed: MA (Eco & Socio), 71, Sahityaratna, 73. Add off: 3 Naveen Market, Parade, Kanpur 208001; resi: PO & Vill Malhausi, Etawah Dist, UP; Ph off: 61740; resi: 249466.

SINGH, Dr Indra Pal: Dean & Pro-Vice-Chancellor, Coll of Vet Scs, Pantnagar; b 1 Jan 33. Ed: BVSc & AH, 55, Agra; MS, 57, Michigan Univ, USA; PhD, 60, Michigan. Add off: Coll of Vet Scs, Pantnagar 263145 (Nainital), UP; resi: 7 Lambert Square, Pantnagar 263145; Ph off: 20; resi: 4.

SINGH, Jai Bax: Exec Dir, Action for Food Production; b 23 May 26. Ed: MSc (Agril Eco), 49, Agra; Trg in Ext Ed in the Netherlands and USA. Add off: 25-1A, Institutional Area, Pankha Rd, D-Block, Janakpuri, New Delhi 110058; resi: EA-264, Ground Floor, SF Scheme, G-8 Area, Rajouri Garden, New Delhi 110064; Ph off: 553652.

SINGH, Dr Onkar Nath: AH Commissr, GOI; b 11 Jan 31. Ed: GBVC, 50, Patna; Advance Course in AH, 51, IVRI; MS (Anim Breeding), 53, PhD (Anim Breeding), 54, Michigan, USA. Add off: Min of Agri, Dept of Agri & Coop, Krishi Bhavan, New Delhi 110001; resi: C-II/90 Moti Bagh I, New Delhi 110021; Ph off: 382608; resi: 674705.

SINGH, Ram Autar, Thakur: Vice-Pres (R&D) & Dir, Kegg Farms Pvt Ltd; b 19 Mar 20. Ed: ACPH, IVRI, 53-54, Ill, USA, 57. Add off: Eros

Apartments, 56 Nehru Place, New Delhi 110019; farm: Khandsa Vill, Gurgaon 122001; Ph off: 6432011, 6431248; farm: 20239; resi: 22313.

SINGH, Dr Ram Awadh: Prof (Poul Sc), Dept of Livestock Production & Management, HAU; b 30 Dec 42. Ed: MSc (Agri), AH & Dairying, 62, Agra Univ; PhD (Poul Sc), 70, Ohio State Univ, USA;Post Doctoral, 83, Alexander von Humboldt-Stiftung, West Germany. Add off: HAU, Hissar; resi: 10/57 HAU Campus, Hissar; Ph off: 3880 Ext 231.

SINGH, Shambhu Dayal: Scientist, Div of Avian Diseases, IVRI; b 1 Dec 53. Ed: BVSc, MVSc, 78. Add off: IVRI, Izatnagar 243122, UP.

SINGH, Shree Naratan: Production Mgr, AHD, The Bharatiya Agro-Industries Foundation; b 9 Apr 53. Ed: BVSc & AH (Hons), 74, Rajendra Agril Univ; MVSc, 76, Agra. Add off: BAIF-BRIAH, off Pune-Nagar Rd, Wagholi, Pune 412207; resi: Bungalow No 30, Wireless Colony, Aundh, Pune 411007; Ph off: 70408-9, 70459, 70859.

SINGH, Surjit: Poul Breeder, Bank of India Line, Batala Rd, PO Khanna Nagar, Amritsar 143001; Ph: 51594.

SINGHI, Padam Chand, IAS: Dir of AH and Dir of Fisheries, Rajasthan; b 20 Feb 30. Ed: BA, 51, Rajasthan; MA, 53, Bombay. Add off: 'Saras Sankul' Bldg, Jawaharlal Nehru Marg, Jaipur 302017; resi: 2 Police Memorial, Jaipur 302004; Ph off: 73634, 67548; resi:63039,62831.

SINHA, Hari Sharan: Dir, AH Dept, Bihar; b 30 July 31. Ed: BVSc & AH, 55, Bihar; ACAH, 61, IVRI, Izatnagar; MSc (AH), 64, Magadh Univ, Gaya; PG Dip in Anim Sc, 71, RVAU, Denmark. Add off: AH Dept, New Secretariat, Patna 800015; resi: Bihar Vet Coll Campus, Bungalow No 2, PO Bihar Vet Coll, Patna; Ph off: 24962; resi: 31363.

SINHA, Dr Rahul: Head, Dept of Anim Genetics & Breeding, Faculty of Vet & Anim Scs, Mohanpur, Nadia; b 15 Apr 38. Ed: BSc, 58, BVSc & AH, 62, MVSc, 65, PhD, 78. Add off: Bidhan Chandra Krishi Viswa Vidyalaya, Mohanpur, Nadia, West Bengal; resi: 18/5 Fern Rd, Calcutta 700019; Ph off: 352; resi: 467466.

SIPAHIMALANI, Chandru Dipchand: Dir, Agril Products, Cyanamid India Ltd; b 1 Aug 35. Ed: BS (Chem Engg), USA. Add off: Nyloc House, 254-D2 Dr Annie Besant Rd, Bombay 400025; resi: I-B Ananta Apartment, Dr Rajabali Patel Rd, Bombay -26; Ph off: 4935211; resi: 8220163.

SIVARAJ, V: Regl Mgr, Light Roofings Ltd; b 31 Aug 51. Ed: BSc, 72, Madras; Dip in Personnel Management & Industrial Relations, 82, Delhi. Add off: 1076 Hardhian Singh Rd, Karol Bagh, New Delhi 110005; resi: 166-M Aram Bagh, New Delhi Ph off: 5725011, 5714418.

SOHAN SINGH SAINI: Jt Commissioner (Poul), GOI; b 3 Apr 28. Ed: BVSc, 49, Punjab; MS, 60, Ohio, USA. Add off: 187-B Krishi Bhawan, New Delhi 110001; resi: DII/B-46 Moti Bagh I, New Delhi 110021; Ph off: 389620; resi: 670324.

SOM, Rabindra Nath: Tech Adviser, Ballygunge Fodder Mills; b 1 Dec 15. Ed: GVSc; PGAH & Dairying, Dacca; MS, Wisconsin. Add off: 9 Gurusaday Rd, Calcutta 700019; resi: Regent Park, Govt Housing Estate Block 9, Suit 2, Calcutta 700040; Ph off: 431680 & 444905; resi: 426023.

SOMANI, Vinay R: Pres, Somani International Corpn. Ed: B Tech, IIT-B; MBA, USA. Add off: 1510 Maker Chamber V, Nariman Pt, Bombay 400021; resi: 86-A Marine Drive, Bombay 400002; Ph off: 230344, 223543; resi: 296705.

SOMARAJU, Penmetcha Venkata: Poul Farmer. Add: Kompalli, Secunderabad; Ph: 52 (KMP); resi: 79082.

SOMI REDDY, Kalakota: Exec Dir, Srinivasa Hatcheries Pvt Ltd; b 19 Apr 47. Ed: BVSc, 70, MVSc, 72, AP Agril Univ. Add off: opp Eenadu, Petamata, Vijayawada 520006; resi: Auto Colony, Vijayawada 520008; Ph off: 52892; farm: 85397; resi: 52891.

SONONE, Ramchandra Nathuji, Lt-Col (retd): Partner, Agrimecha Industries; b 3 Aug 12. Ed: BSc, LLB, AMIEI. Add off: 83 Shivajinagar, Junatopkhana, Pune 411005; resi: 868 Sadashivpeth, Pune 411030; Ph off: 59774; resi: 443395.

SOOD, D N:Ex-Dir of AH,UP;b 8 Sept 27. Ed: BSc, BVSc & AH, MRCVS (UK). Add off: AH Dept, Gokaran Nath Rd, Badshahbagh, Lucknow 226007; resi: B-1086 Indira Nagar, Lucknow; Ph off: 42996; resi: 49007.

SOOD, Deepak: Consulting Engr; b 13 Apr 48. Ed: B Tech, IIT, Delhi; MS, Univ of California, Berkeley, USA. Add off: Ambassador Cooler Pvt Ltd, H-6, B-1, Mohan Coop Industrial Estate, Badarpur, New Delhi 110044; resi: 4 Park Avenue, Maharani Bagh, New Delhi 110065; Ph off: 635131; resi: 634725.

SOOD, Yash Dev: Mg Dir, Vikram Enterprises Pvt Ltd; b 21 Sept 37. Ed: BSc, 61, MSc, 62. Add: A-47 Friends Colony East, New Delhi; Ph: 635371.

SORHIE, Lhouzolie: PDO, Nagaland; b 12 Feb 39. Ed: BVSc & AH, 64, Guwahati. Add off: Dte of AH & Vet, Kohima 797001; resi: Bayavu Hill, Kohima; Ph off: 768; resi: 529.

SRINIVASAN, Dr K: Tech Mgr, Lipton India Ltd; b 14 Nov 44. Ed: MSc, 66, Madras; PhD (Bio-Chem), 75, Kent State Univ, Ohio, USA; Postdoctoral Studies, Houston, Texas, USA. Add off: Lakshminarayana Complex, 10/1 Palace Rd, Bangalore 560052; resi: 405 Silver Lake Terrace Bldg, Richmond Rd, Bangalore 560025; Ph off: 73508, 71536.

SRIVASTAVA, Dr S C: Sr Mktg Exec, Indian Drugs & Pharmaceuticals Ltd; b 13 Sept 41. Ed: BVSc, 62, Indore; MVSc, 68, Jabalpur. Add off: A-7/8/9 Samrat Bhawan, Ranjeet Nagar, Community Centre, New Delhi 110008; resi: 88/7 Pushp Vihar, Sector I,Saket,New Delhi;Ph off:5715186.

SRIVASTAVA, Dr Suresh Chandra: Dep Dir (Poul), Dept of AH, UP; b 8 Apr 33. Ed: BSc, BVSc & AH, MVSc, PhD (Parasitology). Add off: Gokaran Nath Rd, Badshahbagh, Lucknow 226007; resi: 499/73 Umrao Bahadur Rd, Daligunj, Lucknow; Ph off:44989.

SUBASCHANDRAN, Dr D V: Nutritionist & Prop, Shree Bharat Industries & Balloun Pharmaceuticals; Ed: BVSc, MS (USA). Add: RRC 9, Bharat Illam, Thirunagar, Madurai 625006; Ph: 8114.

SUBBARAO, Ramisetty: Special Offr (Meat) & Chief Poul Dev Offr, AP State Meat & Poul Dev Corpn Ltd; b 7 June 36. Ed: BVSc, 61, Madras; MSc (Vet), 69, AP Agril Univ. Add off: Shantinagar, Hyderabad 500028; Ph off: 36681, 36856.

SULAIMAN, V A Mohamed: Prop, Ooty Hatchery & Poul Breeding Farm; Ed: SSLC. Add: Mangalam Rd, Andipalayam, Tirupur 638687; Ph: 20030.

SULTAN AHMED: Ptnr, Iqbal & Co. Add: Urdu Bazar, Jamma Masjid, Delhi 110006; Ph: 264288, 268992.

SUNDARARASU, Dr V: Prof & Head, Poul Res Station, Madras; b 3 Mar 47. Ed: MVSc, PhD, Specialization in Poul Genetics and Breeding. Add off: Nandanam, Madras 600035; resi: R-53, MMDA Colony, Arumbakkam, Madras; Ph off: 450913.

SUPEKAR, Padmakar Ganesh: Associate Prof of Med, Vet Coll, Mhow; b 23 Oct 32. Ed: MVSc, 64, Indore. Add off: Mhow 453441, MP; resi: 128 Sanghi St, Mhow; Ph off: 222 (PP).

SURANA, G C: Mg Dir, Micro Labs Pvt Ltd. Add off: 303, 'A' Wing, Queen's Corner Apts, Queens Rd, Bangalore 560001; Ph off: 26785, 79609; resi: 74898.

SURENDRA SINGH: Dir, Sanchi Agvet Research Pvt Ltd; b 1 Feb 40. Ed: BVSc & AH, 64, MVSc (Poul Sc), 66, GB Pant Univ of Agri & Tech, Pantnagar. Add:off: 301-302 Rattan Jyoti, 18 Rajendra Place, New Delhi 110008; resi: 762, Sector 4, Gurgaon 122001; Ph off: 5722358; resi: 22309.

SURI, Raj: Mg Partner, Super Agro-Vet Industries; b 7 Sept 36. Ed: MA. Add: Pokher Das Bldg, Nicholson Rd, Ambala Cantt; resi: Bank Rd, Ambala Cantt; Ph off:20816.

SURI, S P: Regl Sales Mgr, Ranbaxy Laboratories Ltd; b 29 Sept 40. Ed: MSc (Org Chem), 63, Patna; Dip in Advtg & PR, 71, Bhartiya Vidya Bhawan. Add off: 78 Nehru Place, New Delhi 110019; resi: Shanti Kutir, B-6/92 Safdarjang Enclave, New Delhi 110029; Ph off: 6416417; resi: 606532.

SURVASHE, Dr Baburao Dadarao: Gen Mgr, Ventri Biologicals; b 7 Oct 41. Ed: BVSc (Hons), 63, Bombay; MVSc, 66, Bombay; MVSc (Avian Med), PhD, 76, Liverpool,UK. Add off: Div of Venkateshwara Hatcheries Pvt Ltd, 13/6 Milestone, Panshet Rd, PO Girinagar, Pune 411025; Ph off: 30241; resi: 51277.

SWAMY, D M M: Dir of AH, Tripura. Add off: H G Basak Rd, Astable Permises, PO Agartala 799001; Ph off: 311, 609.

SYED IBRAHIM: Pres, ABC (India) International; b 1 July 23. Ed: Dip in Business Management. Add: Happy Home, 37 Harleys Rd, Kilpauk, Madras 600010; Ph off: 810998, 812568; farm: 69; resi: 613839, 612846.

T

TALUKDAR, Haricharan: Sec, Darrang Poultry Breeders Assn, Assam & Prop, Raksha Kumar Poul Farm. Add: PO Kacharison, Tezpur, Darrang (Assam).

TANDON, Bharat: Mg Dir, Vetcare, Div of Tetragon Chemie Pvt Ltd. Add off: No 90, 3rd Cross, 2nd Main, Gangenahalli, Bangalore 560032; resi: 421, 12th Cross, Sadashivnagar, Bangalore 560080; Ph off: 365633, 369174; resi: 364162.

TANEJA, Sumant: Consultant, Taneja, Deshpande & Associates; b 2 Apr 48. Ed: BA (Hons), 69, Delhi; MMS, 71, Bombay. Add: 5 Apurva Apartments, Napean Sea Rd, Bombay 400006; Ph: 8124214.

TANNA, Laxmikant Jamnadas: Dir, Laxmi Feeds & Exports Pvt Ltd; Ed: BSc, Bombay; MBA, USA. Add off: Tanna House, 11-A Nathalal

D Parekh Marg, Bombay 400039; resi: Grande Parade, Flat No 23/2, Bldg B, August Kranti Marg, Bombay 400036; Ph off: 2021482, 2021169, 2021761; resi: 8222655, 8226429.

TAPIA, Moiz Hasanali: Mg Partner, Deccan Poul Industries; b 21 June 39. Ed:BCom. Add: 261 Swami Vivekananda Rd, Bandra, Bombay 400050; Ph off: 6427202; resi: 38 (Talegaon Dhabade).

TARAPOREVALA, M J: Mktg Mgr, Agril Products, Cyanamid India Ltd; b 2 June 30. Ed: BSc. Add off: Nyloc House, 254-D2 Dr Annie Besant Rd, Bombay 400025;resi: 19 Beach View, 93 Bhulabhai Desai Rd, Bombay 400036; Ph off: 4225211; resi: 8222719.

TARWALA, Krishna Kumar: Prop, Tarwala Poul Farm, Nasik; b 5 Jan 31. Add off: Tarwala Nagar, Dindori Rd, Nasik 422004; resi: 82-A Peacock Palace, 69 Warden Rd, Bombay 400026; Ph off: 2286 (Nasik); resi: 382524 (Bombay).

THAMPAN, Rama Varma: Mg Dir, Mechanical Assembly Systems (India) Pvt Ltd; b 26 June 38. Ed: MA. Add off: Mayithara Market, PO Shertallai, Alleppey Dist, Kerala; resi: Lakshmi, SMC IX, Shertallai; Ph off:2408;resi:2360(Shertallai).

THANGKHIEW, J M, IAS: Dir of AH & Vet Dept, Meghalaya. Add off: Addl Bldg, Civil Secretariat, Shillong 793001; Ph off: 4201 Ext 320; resi: 6033.

THAPER, Ramesh Chander: Mg Editor, Poultry Guide; b 16 Feb 37. Ed: BVSc & AH, 58, Punjab; Postgraduate (AI), 61, Punjab. Add off: 20 Thyag Raj Nagar Market, near Lodi Colony, New Delhi 110003; Ph off: 621018, 622278.

THARANATH K: Ex-Jt Dir, Directorate of AH, Kerala. Add off: Vikas Bhawan, PB No 138, Trivandrum 695035; Ph off:60683.

THIRUMALAI SWAMY, P: Poul Farmer. Add: Madhanaickenpatty, Kuttampatty PO, Tharamangalam via, Periyar Dist, TN.

THORAT, Subhashchandra B: Dir (Special Services), Venkateshwara Hatcheries Pvt Ltd, Pune; b 9 Feb 33. Ed: B Arch, Bombay; AIIA, 58, FIV. Add off: 13/6 Milestone, Panshet Rd, PO IAT, Girinagar, Pune 411025; resi: Plot No 125,National Coop Housing Society, Baner Rd, Aundh, Pune 411007; Ph off: 30211, 442244, 442748; resi: 56606.

TOMAR, J S: Chief Mgr (PS), Oriental Bank of Commerce Ltd; b 9 July 43; Ed: BSc (Agri), 62, Agra. Add off: HO, E-Block, Connaught Place, New Delhi 110001;resi: 26/1 Punjabi Bagh Extn, New Delhi; Ph off:310157,351071,351821;resi:501954.

TOMBOLIYA, Tarachand Sahebram: Mgr (Quality Control), Maharashtra Agro Industries Dev Corpn; b 10 May 45. Ed: MSc, 73, Gujarat Agri Univ. Add off: Sugras Factory, opp Central Stores, Aarey Colony, Goregaon, Bombay 400065; resi: Jai Shree Dhun Coop Soc, R 7/8 Bansur Nazra, Bombay 400090; Ph off: 693881; resi: 685903.

TRIPATHY, Dr Sashi Bhusan: Prof & Head, Dept of Medicine, Orissa Vet Coll; b 13 Apr 32. Ed: BSc (Vet), 56, Bombay; MS (Vet Med), 61, Cornell; PhD, 64, Washington State Univ (USA). Add off: Bhubaneswar 751003; resi: Qr No 40, Type 3R, Agri Colony, Bhubaneswar 751003; Ph off: 52669 Ext 21.

TULSA RAM, Dr: Poul Specialist; b 1 Dec 05. Ed: LVP, 27, PGPH, 44, MS, 48, PhD, 49. Add: 112-A, New Colony, Gurgaon 122001; Ph: 2840.

TURAKHIA, Mahendra: Sales Mgr, Kent Pharmaceuticals. Add: 22-A Vijay Chambers, Tribhuvan Rd, opp Dreamland Cinema, Bombay 400004; Ph: 364894.

TYAGI, Dr Rajpal Singh: Dir of Res, HAU; b 10 Jan 33. Ed: BVSc & AH, 53, Agra; MS, 59, Michigan State Univ, USA; PhD, 62, Univ of Minnesota, USA. Add off: HAU, Hissar 125004; resi: 6/3 HAU Old Campus, Hissar; Ph off: 4068 & 3721 Ext 216; resi: 3634.

U

UNNI, Dr A K Kochugovindan: Prof & Head, AICRP (Poul), Coll of Vet & Anim Scs, Mannuthy; b 9 May 39. Ed: BVSc, 61, Kerala; MSc, Anand; PhD, TNAU. Add off: Kerala Agril Univ, Mannuthy 680651, Trichur Dist, Kerala; resi: Vet Coll Compound, Mannuthy; Ph off: 25237; resi: 25289.

V

VAIDYA, Balkrishna Devji: Mg Dir, Maharashtra Rajya Machhimar Sahakari Sangh Ltd; b 1 July 28. Ed: BSc, 54, Bombay Univ, Postgraduate Dip in Fisheries, 62-64. Add off: 3 Mahatma Phule Market, Bombay 400001; resi: Kaustubha, Flat No 12, Bandra (West) Reclamation, Bombay; Ph off: 343049; resi: 547291.

VAIDYA, Dr Subhas Vasudeo: Operations Mgr, AFD, Lipton India Ltd, Pune; b 19 Dec 47. Ed: PhD in Poul Sc, 75, IVRI. Add off: 4/38, Sumangala, off Karve Rd, Erandawane, Pune 411004; resi: Puja Apartments, Flat No 3, 18/B/100,Gidney Park, Salisbury Park, Pune 411001; Ph off: 34314.

VARAHALA RAJU, K: Mg Dir, Sri Rajkamal Hatcheries; b 25 Aug 45. Ed: BSc, BEd, AP Univ. Add: 3-3-34 Narasingaraopeta, Anakapalle, Visakhapatnam Dist, AP; Ph off: 800; resi: 870.

VARMAN, Dr Pran Nath: Prof & Head, Dept of Vet Physiology, Coll of Vet Sc, PAU; b 6 Apr 36. Ed: BVSc & AH, 59, Punjab; MS, 64, Montana; PhD, 68, Wisconsin. Add off: Ludhiana 141004; resi: 8/10 PAU Campus, Ludhiana; Ph off: 22960/291.

VASANTH KUMAR, Chidambara: Mg Partner, Balkrishna Hatcheries; Partner, Mandovi Hatcheries, Goa; b 9 Jan 50. Ed: BSc. Add off: Balkrishna Hatcheries, "Sri Krupa", Brahmanpuri, Miraj 416410;resi: "Mayur", Somwar Pet, Miraj 416410; Ph off: 2646, 2918; farm: 2191; resi: 2141.

VEGAD, Dr Jawaharlal Gowamal: Univ Prof & Head, Dept of Pathology, Coll of Vet Sc & AH, Jabalpur; b 30 Aug 36. Ed: BVSc, 58, Jabalpur; Associate, IVRI, 60; PhD, 67, New Zealand. Add off: Vet Coll, Jabalpur 482001; Ph off: 41.

VENKATARAMAN, S: Chmn & Mg Dir, Velven Laboratories (India) Pvt Ltd; b 11 May 37. Ed: BA (Spl), BCom, 57/58, Bombay. Add off: 7 Narayan Bhuvan, Bhandarkar Rd, Matunga, Bombay 400019; resi: A-6/19/3 "Vima Vijay", Borivli (W), Bombay 400103; Phone office: 481842; residence: 651020.

VERMA, Dr Khem Chandra: Scientist & Head, Div of Avian Diseases, IVRI; b 5 Jan 41. Ed: BVSc & AH, 62, Agra; MVSc, 64, Agra; PhD, 75, IVRI. Add off: IVRI, Izatnagar 243122, UP; resi: IVRI Campus, Izatnagar 243122; Ph off: 75510.

VERMA, Sahab Singh: Head, Dept of Post-Harvest Technology, Central Avian Res Inst; b 15 Jan 40. Ed: BVSc & AH, 64, Pantnagar; MVSc (Poul Sc), 70, JNKVV; Advance Trg in Meat Technology in GDR; FAO sponsored course in Meat, Fish & Poultry Technology, CFTRI. Add off: Izatnagar 243122, UP; resi: Qr No 8, Type 4, IVRI Campus, Izatnagar; Ph off: 74332 Ext 15.

VERMA, Shyam Swaroop: Dep Dir (Poul Dev), Dte of Vet Services, MP; b 20 Oct 36. Ed: BVSc, 57, Jabalpur; NDPH, 65, IVRI; Dip in Duck Production, 84, London. Add off: Tulsi Nagar, Bhopal 462005; resi: 91/18 Tulsi Nagar, Bhopal; Ph off: 61152.

VICHARE, D J: Poul Farmer. Add: Vill Koparkhairni, PO Ghansou, Thane-Belarpur Rd, Thane 400701; Ph: 524729.

VIJAYARAGHAVAN, Gonuguntla: Mg Dir, Nandyal Agro Industries Pvt Ltd; b 12 Jan 48. Ed: BE, 69, Sri Venkateswara Univ. Add: Gangavaram Vill 518583, Kurnool Dist, AP; Ph: 698 (Nandyal).

VIJAYSINGH, Bayas: Manufacturer of Poultry Equipment; b 26 Jan 47. Add off: Sri Uday Enterprises, 11-2-398, opp Govt Hospital, Nampalli, Hyderabad 500001; resi: 11-2-396, opp Govt Hospital, Nampalli, Hyderabad 500001; Ph off: 36448.

VIKARUDDIN SHAIK IMAM: Mg Dir, Kasila Farms Pvt Ltd; b 1 Dec 41. Ed: BSc. Add off: 902 Paigah Plaza, Basheerbagh, Hyderabad 500029; Ph off: 223551-2.

VIRMANI, Swadesh Chander: Asst PDO, Dept of Agri, GOI; b 5 Dec 37. Ed: BVSc & AH, 61, Punjab; NDPH, 64, IVRI; MVSc, 74, Agra. Add off: Min of Agri, Govt of India, Krishi Bhawan, New Delhi 110001; resi: A-10 Shanker Gardens, New Delhi 110018; Ph off: 388911 Ext 711, 384858.

VIRMANI, Vineet: Jt Mg Dir, S P Virmani & Son (P) Ltd, Jawala Flour Mills, Delhi/Amritsar; b 6 Dec 41. Ed: MSc, Delhi; MS, Kansas. Add off: 33 Shivaji Marg, New Delhi 110015; resi: 15 Golf Links, New Delhi 110003; Ph off: 531331; resi: 611500.

VISHWANATHA RAO, Kurnool: Proj Coordinator, Koteswara Hatcheries Pvt Ltd; b 5 Jan 30. Ed: BVSc; NDPH, 66, IVRI; Trg in Poul Husbandry, 74, Australia. Add off: 4A, 25th Ward, Cantonment, Bellary 583102; resi: 28 Krishnappa Block, II Temple Rd, Malleswaram, Bangalore; Ph off: 3752, 2801.

VISWANATHAN, G V: Partner, K R V Agencies; Dir, Provimi Products Pvt Ltd & K R V Feeds Pvt Ltd; b 16 Sept 45. Ed: MA, 71, Madras. Add off: 3-F, Mill Rd, Gobichettipalayam 638476, Tamil Nadu; resi: 18 Dr Venkataraman St, Gobichettipalayam 638452; Ph off: 193 & 293; resi: 93.

VITKAR, P P: Asst Mgr, Roche Products Ltd; b 8 Feb 46. Ed: BVSc & AH, 71, MPKV, Rahuri; MBA, 82, IMDR, Pune. Add off: 28 Pt M M Malaviya Rd, Bombay 400034; resi: B/106, 'Rishikesh', Four Bungalow, Andheri (W), Bombay 400058; Ph off: 4945890.

FOR YOUR ATTENTION : Send your updated entry early to catch the next edition of the YEARBOOK.

W

WAGLE, Awadhut Shripad: Dir, AH & Vet Services, Goa; b 7 Oct 35. Ed: BVSc, 58, Osmania; Postgraduate Trg in Anim Reproduction, 63, IVRI. Add off: Ganga-Niwas, Panaji, Goa; resi: Esvanta Flat No 2, Santa Inez, Panaji, Goa; Ph off: 5381; resi: 5550.

WAHAB, A M Abdul: Mg Dir, AVM Hatcheries & Poultry Breeding Res Centre Pvt Ltd; b 12 Apr 30. Ed: SSLC. Add off: 25/327 Rangai Gowder St, Coimbatore 641001; resi: 110 Venkatasamy Rd, R S Puram West, Coimbatore; Ph off: 26943, 23683; resi: 24460.

WAKHARKAR, Prakash Balwant: Prop, Mansee Corpn; b 11 Sept 48. Ed: B Tech (Chem Engg), 72, Nagpur. Add off: 6-A Vimal Udyog Bhavan, Bombay 400016; resi: 11, 'Shreyas', off Veera Desai Rd, Andheri (W), Bombay 400058; Ph off: 452205; resi: 620168.

WALIA, Gurdarshan Singh: Mg Partner, Super Agro-Vet Industries; b 21 Feb 39. Ed: BVSc & AH. Add off & resi: 95-B Govind Nagar, Ambala Cantt; Ph: 21985.

WALIER, Rajkumar: Mg Dir, Walfars Feeds Pvt Ltd; Mg Partner, Walfars Pharmaceuticals; b 18 Aug 42. Ed: BSc, 62, Madras; Law, 64-65. Add off: 24 Ismail Rawther St, opp Vet Hospital (TELC Compound), Coimbatore 641001.

Y

YADAVA, Dilip Premji: Partner, Swastik Trading Corpn, Bombay; b 16 Nov 52. Ed: BCom, Bombay. Add off: Sugarhouse, 5th Floor, 93/95 Kazi Syed St, Bombay 400003; resi: 15 Bhagyoday, Kasturba Marg, Mulund, Bombay 400080; Ph off: 342475; resi: 591960.

YADAVA, Dr Indrajit Singh: Dean, Coll of Anim Sc, HAU; b 1 Aug 26. Ed: BVSc, 49, Punjab Univ; MS, 60, PhD, 62, Kansas State Univ, Manhattan, USA. Add off: HAU, Hissar; resi: 8/2 HAU, Hissar; Ph off: 4079, 3721 Ext 241; resi: 2843.

YELLORE, Santosh: Quality Assurance Mgr, Ranbaxy Laboratories Ltd; b 30 Sept 33. Ed: BSc (Hons), MSc (Microbiology), Bombay. Add off: Okhla, New Delhi; resi: E-247 Greater Kailash I, New Delhi 110048; Ph off: 633567; resi: 6410889.

YOUNUS, Mohammed: Feed Manufacturer & Poul Consultant; b 22 Apr 49. Ed: BVSc, 71, MSc (Poul), 74, Andhra Pradesh Agril Univ. Add off: MASFED Poultry Consultancy, 16-7-382/18 Azampura Masjid, Hyderabad 500024; resi: 19-4-274/8 New Idgah, Miralam Tank, Hyderabad 500264; Ph off: 45772; resi: 52146.

Z

ZAFAR MAHMOOD: Supdt, Random Sample Laying Test Unit, GOI; b 1 Jan 35. Ed: BSc, BVSc & AH, NDPH. Add off: 69/4 Urban Estate, Gurgaon 122001, Haryana; Ph: 21364 (Gurgaon).

Late Additions

ANAND, Dr S C: Mgr, PS & LB Div, Punjab National Bank; b 10 Feb 52. Ed: BVSc & AH, 74, HAU; MBA, 76, PAU. Add off: Chandralok Bldg, Janpath, New Delhi 110001; resi: 250 Bank Enclave, Laxmi Nagar, Delhi 110092; Ph off: 324842.

ANURADHA RAO, Ms B: Dir, Venkateshwara Hatcheries Pvt Ltd; Chief Exec, Ventri Chemicals Pvt Ltd; b 15 May 62. Ed: BA, Poona Univ. Add off: 13/6 Milestone, Panshet Rd, PC Girinagar, Pune 411025; resi: 104 National Coop Housing Society, Baner Rd, Aundh, Pune 411007; Ph off: 442244, 442748; resi: 53443.

ARJUN BHOLA: Factory Mgr, Brocke Bond India Ltd; b 29 Aug 42. Ed: BSc Engg (Mech), 64, BHU. Add off & resi: Gevrai Factory, PO Box 96, Aurangabad 431001; Ph off: 4591-2-3; resi: 3351.

AZAM, Farooque: Mg Dir, Swarnrekha Farms & Hatcheries Pvt Ltd; b 13 July 50. Ed: BCom, 71, Ranchi Univ. Add off: Kanke Rd, Opp Jawaharnagar, Ranchi 834008; resi: "Gulistan", Kanke Rd, Ranchi 834008; Ph off: 26789; resi: 27786.

BAKSH, Mohammad Azimuddin: Dep Gen Mgr, Sales & Export, Venkateshwara Hatcheries Pvt Ltd; b 5 Feb 42. Add off: 13/6 Milestone, Panshet Rd, PC Girinagar, Pune 411025; resi: 'AIKHUDS', 16-2-836/4, Saidabad, Hyderabad 500659; Ph off: 442663, 442748, 442561; Hyd: 237254, 237255; resi: 556362 (Hyd).

BALWANT SINGH: Dean, Coll of Vet Sc, PAU; b 27 Jan 39. Ed: BVSc & AH, 59, PAU; MVSc, 62, Agra Univ; PhD, 69, PAU, Ludhiana. Add off: Ludihana 141004; resi: 691/13, Gurdev Nagar, Ludhiana; Ph off: 22960/210.

BHAGI, Vijay Kumar: Gen Mgr, Bhandari Crosfields Ltd; b 26 Sep 49. Ed: BA, 69, Delhi Univ. Add off: 101-A Arjun Nagar, Near Green Park, New Delhi 110029; resi: B-4/188A, Safdarjang Enclave, New Delhi 110029; Ph resi: 677057.

BHANDARI, Prahlad Raj: Mg Partner & Chief Exec, Central & Western India Chemicals; b 13 May 49. Ed: BSc, 66, Rajasthan Univ; BE (Chem), 70, Roorkee Univ. Add off: 737 Near PCMT Bus Station, Bhosarigaon, Poona 411039; resi: 10 Yamuna, Udyog Nagar, Chinchwad, Pcona 411033; Ph off & resi: 85247.

BHASKARA RAO, Dr V V: Chief Tech Offr, Koteswara Hatcheries (P) Ltd; Ed: BVSc, 79, APAU. Add off: 5 Vimla Bldg, Residency Rd, Bangalore; resi: 798, 5th Main, Vijayanagar, Bangalore 560040; Ph off: 564358; resi: 351074.

BHATTACHARYYA, Dr S: Tech Services & Trg Mgr, Glaxo Laboratories (India) Ltd; b 8 Nov 37. Ed: BVSc & AH, 60, Calcutta. Add off: Dr A B Rd, Worli, Bombay 400025; resi: JN-4-3/Flat No 7, Sector-9, Vashi, New Bombay; Ph off: 4933871.

BHULLAR, Maj G S: Mg Dir, Kentucky Hatcheries (P) Ltd; b 5 Apr 44. Ed: BA, 61, Pb. Add off: 3054, Sector 20 D, Chandigarh 160020; Ph off: 32523.

BINDRA, D R: Gen Mgr, Brooke Bond India Ltd; b 4 June 47. Ed: BCom, 67, Pb Univ; FCA, 71, Inst of Chartered Accts in England & Wales; ACA, 76, Inst of Chartered Accts of India. Add off: PO Box 96, Aurangabad 431001; Ph off: 4591-2-3; resi: 3352.

CHITALE, Arvind Shankar: Partner, Electron & Electrons; b 19 Feb 49. Ed: DERE, 68-69, Board of Techl Ed, Bombay. Add off: 695-A, Laxmi Rd, Mist House, Sadashiv Peth, Opp Vijay Cinema, Poona 411030; resi: Plot No 1, LIC Colony, Behind Hotel Shakun, Poona 411009; Ph off: 448851; resi: 440918.

CHITNIS, Air Marshal Hemant Ramkrishna (retd): Adviser Mgmt, Venkateshwara Hatcheries Pvt Ltd & Mg Trustee, Inst of Poul Mgmt of India; b 19 Feb 24. Add off: 13/6 Milestone, Panshet Rd, PO Girinagar, Pune 411025; resi: Shanti Sadan, Khulewadi, Lohogaon, Pune 411032; Ph off: 79207; resi: 64604.

CHOPRA, Kuldip Kumar: Mg Dir, Chopra Hatcheries; b 7 July 45. Ed: MA (Math), 66, Pb. Add off: Opp Shivaji Park, Milap Rd, Jalandhar City 144001; resi: 294-L Model Town, Jalandhar 144003; Ph off: 76248, 76382; resi: 2459.

DATTA, M K: Jt Dir (Poul), Dte of AH, West Bengal; b 8 July 35. Ed: BVSc & AH, 77, BCKV, NDPH, 64, ICAR; Dip of AI & G, 60, Board of Vety Education, WB. Add off: Writers' Bldg, 4th Floor, Block 'F', Calcutta 700001; resi: 42 Graham Rd, Calcutta 700040; Ph off: 255601, 253371 Ext 263; resi: 465314.

GABRIEL RAJ, Dr A: Gen Mgr, Vet-Pharm; b 2 Oct 43. Ed: BVSc, 69, Madras; MVSc, 75, IVRI; PhD, 80, TNAU. Add off: 29 Police Commissioner's Office Rd, Egmore, Madras 600008; resi: AP.97, 11th Main Rd, Anna Nagar, Madras 600040; Ph off: 842738; resi: 616675.

GAZULA, Dr Ravikant George: Nutritionist-cum-Production Mgr, Krishna Sahakari Sakhar Karkhana Ltd; b 8 July 49. Ed: BVSc & AH, 72; MVSc in Poul Production, 74, PKV, Akola. Add off: Feed Mill Div, Rethare Bk, PO Shivnagar 415108, Karad Tal, Satara Dist; Ph off: 2306 (Karad); resi: 53 (Shivnagar, via Karad).

GHULE, G V: Sr Div Mgr (Mktg), Mafco Ltd; b 10 Feb 37. Add off: Mistry Bhavan, 6th Floor, Dinshaw Vachha Rd, Bombay 400020; resi: Jyoti Sadan Coop Housing Society, Flat No 3, 2nd Floor, Sion Rd, Near Gandhi Market, Bombay 400022; Ph off: 222244; resi: 485769.

GILL, Kuldip Singh: Mg Dir, Embrocia Farms Pvt Ltd & Gill Farms; b 25 Sep 45. Add off & resi: Vill Kotli, PO Jakolari, Gurdaspur Dist, Pb; Ph off: 21199; resi: 20822.

GILL, Dr Sukhdev Singh: Spl Dir of Res, PAU, Ludhiana; b 1 May 32. Ed: BSc (Agri & AH), 53, MSc (Agri), 57, Pb; PhD, 65-66, Ohio, USA. Add off: Ludhiana 141004; resi: 6/13 PAU Campus, Ludhiana 141004; Ph off: 37721; resi: 22960 Ext 270.

HARIANAWALLA, Gulam Abbas Mahfuz: Exec Dir, Venkateshwara Farms Pvt Ltd; Gen Mgr, Venky's Fast Foods, Pune; b 19 Jan 53. Ed: BSc, 74, Bombay. Add off & resi: At & Post Karla, Tal Maval, Pune Dist; Ph off: 34, Pune:442748,30495;resi:35.

INDRESH KUMAR (SHAMMI): Gen Mgr, Diamond; b 8 Aug 56. Ed: BCom, 75, Delhi. Add off: B-16/8, Jhilmil Industrial Area, G T Rd, Shahdara, Delhi 110032; resi: LPT-343, Sarojini Nagar, New Delhi 110023; Ph off: 204071; resi: 674898.

ISMAIL MAGDUM, M R: Ops Mgr, Venkateshwara Hatcheries Pvt Ltd & Bhagyalakshmi Hatcheries Pvt Ltd; b 30 July 46. Ed: BA, 68, Poona. Add off: 3A Subhodaya Apartments, Boggulkunta, Hyderabad 500001; resi: Thimmapur, Mahaboobnagar Dist; Ph off: 237254, 237255, 236424; resi: 87 (Palmakol).

KAMESWARA RAO, Kudupa: Mg Dir, Varuna Hatcheries Pvt Ltd; b 23 Apr 32. Add off: Bandar Rd, Near Benz Circle, Chandra Mouli Puram, Vijayawada 520010; resi: Peda Avutapalli 521286, Gannavaram Tal, Krishna Dist, AP; Ph resi: 57325.

KANSAL, Dr Shiv Chand: Mg Dir, S M Pulp Packaging Pvt Ltd; b 14 Aug 48. Ed: PhD (Chemical Engg), Dip in Business Mgmt. Add off & resi: Sunilya Railway Rd, Sangrur, Punjab; Ph: 2426.

KHER, Ashok Rajaram: Systems Mgr, Venkateshwara Hatcheries Pvt Ltd; b 15 Mar 38. Ed: BCom, Bombay Univ; FBI, London. Add off: Dept of Computer Services, "Indrayani", Kanchan Galli Corner, Pune 411004; resi: 16 Happy Colony, Pramila Apts, Kothrud, Pune 411029; Ph off: 443204; resi: 443077.

KISHAN RAO, Dr P: Mg Dir, Kaveri Hatcheries Pvt Ltd; b 15 May 45. Ed: BVSc & AH, 65, MVSc, 75, PhD, APAU. Add off: Opp RTO Office, Dilsukhnagar, Hyderabad 500036; resi: 1-75 Chaitanyapuri, Hyderabad 500660; Ph resi: 559484.

KOLTE, Dr Gopal Namdeo: Tech Mgr, Venkateshwar Hatcheries Pvt Ltd; b 5 Jan 38. Ed: BVSc, 60, MVSc, 63, Jabalpur; PhD, 71, Illinois, USA. Add off: Poultry Diagnostic & Res Centre, 18 Km Pune-Sholapur Rd, Loni Kalbhor 412225, Dist Pune; resi: 1114/11 Gajanan Housing Society, Shivajinagar, Pune 411016; Ph resi: 52488.

KUTTY, P K: Ops Mgr, Venkateshwara Hatcheries Pvt Ltd; b 14 Nov 49. Ed: SSLC, 64. Add off & resi: 13/6 Milestone, Panshet Rd, PO Girinagar, Pune 411025; Ph off: 442244, 442748, 442663; resi: 442561.

MAHANBIR SINGH, Dr: Dir, Kentucky Hatcheries P Ltd; b 9 July 42. Ed: BVSc & AH, 64, PAU. Add off: 3054 Sector 20 D, Chandigarh; resi: 1133 Sector 34-C, Chandigarh; Ph off: 32523.

MALIK, Arvind: Dir, U P Farm Products Pvt Ltd; b 11 Sep 55. Ed: Automobile Engg, 75, Haryana Univ. Add off: B-11/2 Okhla Industrial Area, Phase II, New Delhi 110020; resi: At Vill Asalat Nagar, Meerut Rd, PO Muradnagar, Dist Ghaziabad; Ph off:633446;resi:Muradnagar 149.

MALIK, Vishwa Pal: Poul Dev Offr, AH Dept, Haryana; b 15 Sep 35. Ed: BVSc & AH, 58 Hissar; Dip SHPT, 64, Aligarh; Breeding & Genetics Course, CTIPPM. Add off: Sector 19-B, Chandigarh; resi: 213 Sector 8, Panchkula, Dist Ambala; Ph off:22726.

MANHAS, Dr Rajinder Singh: Asst Gen Mgr (Sales), Northern Hatcheries Pvt Ltd; b 11 Apr 52. Ed: BVSc & AH, 74, GB Pant Univ, Pantnagar; Poul Mgmt & Farm Eco course sponsered by FAO, 75, CTIPPM, Bangalore. Add off & resi: Vill Sasrali, PO Jodhewal Basti, Ludhiana; Ph city off: 23851, 37387; Farm & resi: 36593, 36796.

MOHANASUBRAMANI, N N: Mgr (Coordination), National Egg Coordination Committee, 1797 Kotla Mubarakpur, New Delhi 110024; Ph: 698178.

MOHANTY, Jibananda: Dir, AH, Dairy & Vet Services, Orissa; b 21 Nov 32. Ed: BVSc & AH, 54, Bihar Univ; MS, 61, Missouri, USA; FRVAC, 67, Denmark; PhD, 74, OVAT. Add off: Dte of Vet Services, Mangalabag PB No 44, Cuttack 753001, Orissa; Ph off: 21929.

NAIR, T V G: Partner, Nair Brothers; b 12 July 44. Ed: Welding Engg, 59-60. Add off: Hadapsar, Pune 411028; Ph off:70779

NARAYANA, Kethineedi Lakshmi: Exec Committee Member, NECC; & Mg Partner, Kethineedi Poultry Farm; b 28 Oct 48. Ed:BA, 69, Delhi Univ. Add off: Bapulapadu, Hanumanjunction 521105, Krishna Dist; resi: Appanaveedu, Hanumanjunction 521105; Ph off: 58; resi: 148.



PATIL, Shashikant N: Ops Mgr, Northern Hatcheries Pvt Ltd; b 25 May 53. Ed: BVSc & AH, 77, PKV, Akola; MVSc & AH, 79, Jabalpur. Add off: Vill Sasrali, PO Jodhewal Basti, Ludhiana; Ph off: 36796; resi: 36593.

PRAKASH BABU, M: Geneticist, Venkateshwara Research & Breeding Farm Ltd; b 28 July 48. Ed: BVSc, 71, MVSc, 73, APAU; PhD, 77, PAU. Add off & resi: Girinagar PO, Pune 411025; Ph: 30495.

PRASAD, K H: Exec Dir, The Standard Roofings Pvt Ltd; b 14 June 36. Ed: Sales Mgmt Course at ASCI, Hyd. Add off: Peddibhotla Vari St, Governorpet, Vijayawada 520002; resi: 18-1-274, Bhavani Nagar, Tirupati, AP; Ph off:63931 (Vijayawada); factory: 23 (Maddiledu, via Srikalahasti).

RAGHAVAN, Thandavarayan: Mg Partner, Vet-Pharm; b 10 Apr 32. Ed: MA, Madras Univ. Add off: 62 Spur Tank Rd, Madras 600031; resi: F-113 Anna Nagar Fast, Madras 600102; Ph off: 662816, 664547, 665398; resi: 613995.

RAGHUPATHAY, P V: Mg Partner, Pioneer Hatcheries, 7/67 Pongalur 638667, Coimbatore Dist; Ph off & resi: 25; farm: 35.

RAMRAKHIANI, P G: Chmn, Gujarat State Poultry Farmers' Co-op Fed Ltd; b 25 Nov 40. Ed: BA (Hons), 61, MA, 63, Delhi Univ. Add off: 61 Sardar Patel Colony, Stadium Rd, Ahmedabad 380014; Ph off: 446581, 404741.

RAO, Banda Manik: Dep Gen Mgr, Srini Biological Laboratories Pvt Ltd; b 27 Aug 42. Ed: BCom, 65, Osmania; DMRSc, 78, Delhi. Add off: 2-H Subhodaya Apartments, 4-1-1233 Boggulkunta, Hyderabad 500001; resi: 3-5-801 Opp Bharatiya Bhavan, King Koti Rd, Hyderguda, Hyderabad 500027; Ph off: 237254, 237255, 236424; resi: 227609.

RAO, Banda Venkatesh: Dir, Western Hatcheries Pvt Ltd; b 1 Jan 65. Ed: BA, Poona Univ. Add off: 13/6 Milestone, Panshet Rd, PO Girinagar, Pune 411025; resi: 104 National Coop Housing Society, Baner Rd, Pune 411007; Ph off: 442748, 30495; resi: 53443, 53444.

SAXENA, Dr Harish Chandra: Gen Production Mgr, Agril Dev Corpn; b 23 Sep 30. Ed: BSc (Agri), 49, Allahabad; MS, 53, PhD, 63, Washington State Univ, USA. Add off: PO Box 1039, Jeddah, Saudi Arabia; Ph off:6892468, 6809752, 6809492; resi: 6727237.

SELVAKUMAR, D G: Sales Mgr, TTK Pharma Pvt Ltd; b 5 June 54. Ed: BVSc, 76, TN Univ. Add off: 66 Luz Church Rd, Mylapore, Madras 600004; Ph off: 74110, 74327; resi: 433672.

SELVAPATHY, V: Partner, Pioneer Hatcheries; b 15 May 50. Ed: BSc, 70, Madras Univ. Add: 7/67 Pongalur 638667, Coimbatore Dist; Ph off & resi: 25; farm: 35.

SEN, Samarendra Narayan: Mg Dir, Urban Hi-Breed Farm Pvt Ltd; b 6 Mar 41. Ed: BCom, 63, Calcutta. Add off: 109/1A, Biplabi Rash Behari Bose Rd, Calcutta 700001; resi: Diamond Harbour Rd, PO Joka 743512, Dist 24 Parganas; Ph off: 269111, 269119; resi: 615-241/281.

SETHI, Siya Ram: Mg Partner, Diamond; b 1 Apr 41. Add off: B-16/8, Jhilmil Indl Area, Shahadra, G T Rd, Delhi 110032; resi: A-44 Vivek Vihar, Phase II, Delhi 110032; Ph off: 204071; resi: 204827.

SETTY, G N: Dir, Kaveri Hatcheries Pvt Ltd; b 20 Apr 46. Ed: ME (Foundation Engg), 71, Osmania. Add off: Opp RTO Office, Dilsukhnagar, Hyderabad 500036; resi: 2-2-1105/37/C/B Tilak Nagar, Hyderabad 500044; Ph resi: 43814.

SHARMA, Capt S N: Dir of AH, Haryana; b 16 June 35. Ed: BVSc & AH, 57, Pb; PG, 60, Hissar; PG (Frozen Semen Tech), 69, NDRI, Bangalore. Add off: SCO 80-81, Sector 17-C, Chandigarh 160017; resi: 2983 Sector 15-C, Chandigarh; Ph off: 24735; resi: 24165.

SHIVANNA, Dr H S: Central Exec Committee Member, NECC; Editor, NECC Review; b 3 Mar 45. Ed: MA, 67, PhD, 77, Mysore. Add off & resi: 29, 5th Main Rd, Jayalakshmipuram, Mysore 570012; Ph: 21042.

SHIVENDER SINGH: Dep Dir, AH Dept, Delhi Admn; b 6 Apr 32. Ed: BVSc, 54, Pb. Add off: 98 Old Sectt, Delhi 110054; resi:



10 Karkar Dooma Govt Flats, Delhi 110092; Ph off: 2512285.

SINGH, Dr Rajdeva Narayan: Dep Dir (SLPP), Dte of Vet & AH, Nagaland; b 19 July 43. Ed: BVSc & AH, 66, Ranchi Univ;MVSc (AH), 69, Agra Univ. Add off: Directorate of Vet & AH, Kohima 797001; resi: House No T A 4, Midland, Kohima; Ph off: 494; resi: 2212.

SOLANKI, Dr Kantilal Bankatlal: Assoc Prof of Pathology, Bombay Vet Coll; b 11 Feb 42. Ed: BVSc & AH (Hons), 65, Bombay; MVSc (Path), MPKV, Rahuri; PhD, 81, KKV, Dapoli. Add off: Parel, Bombay 400012; resi: Officer Qtrs of Bombay Vet Coll, Bombay; Ph off: 441180, 442793; resi: 447033.

SOMANI, Susheel Gajadhar: Mg Dir, G Claridge & Co Ltd; b 10 Nov 41. Ed: MSc, 65, Bombay Univ. Add off: 41-A Dr E Moses Rd, Worli, Bombay 400018; resi: 403 Olympus, Altamont Rd, Bombay 400026; Ph off: 4920780-81-82; resi: 360576, 381411.

SRIDHARAN, R: Dir, Velven Laboratories (India) Pvt Ltd; b 7 Apr 46. Ed: B Pharm, 70, Madras. Add off: No 7, Narayan Bhavan, Bhandarkar Rd, Bombay 400019; resi: Flat No 3, A-6/19, Vima Vijay, Jeevan Bima Nagar, Borivali (W), Bombay 400103; Ph off: 481842; resi: 651020.

SUBBARAYUDU, D: Prof & Head, Dept of Poul Sc, APAU; b 5 July 28. Ed: BVSc, 52, Madras Univ; MS, 66, Kansas State Univ, USA. Add off: Coll of Vet Sc, Tirupati 517502; resi: 5-6-523/7 Reddy & Reddy Colony, Tirupati 517501; Ph off: 2531/2/3; resi: 3026.

SYED AYAZ UDDIN: Mgr, Bharat Feeds & Fertilizers; b 11 June 55. Ed: BCom (Hons), 79, AMU, Aligarh. Add off: Idgah Rd, Hapur, Dist Ghaziabad, UP; resi: 57 Kanoon Goyan, Hapur, Dist Ghaziabad; Ph off: 3174.

THAKKER, Harshad L: Prop, Quality Wire Products; Ed: DME, Bombay. Add off: 3-D Maker Bhavan No 2, 18 New Marine Lines, Bombay 400020; resi: 75/76 Sahakar Nivas, Tardeo Rd, Bombay 400034; Ph off: 310024; resi: 4941047, 4941752.

THANKARAJ, K: Tech Mgr, T R Farms; b 2 June 51. Add off: Thozuekal, Neyyattinkara 695121, Kerala; Ph: 308.

THIMMAIYAN, V: Partner, Pioneer Hatcheries, 7/67 Pongalur 638667, Coimbatore Dist; Ph off & resi: 25; farm: 35.

TURAKHIA, Mahendra A: Partner, Turakhia Bros; b 25 Dec 45. Ed: BSc. Add off: 1 Master Chamber, 1st Cinema Rd, Bombay 400020; resi: 1 Jamnagar Society, JVPD Scheme, Juhu, Bombay 400049; Ph off: 316590; resi: 573115.

VENKATESWARA RAO, B: Principal, Coll of Vet Sc, Tirupati; b 13 Jan 30. Ed: BVSc, 53, MVSc (Vet), 58, PhD, 70, Madras Univ. Add off: Tirupati 517502, AP; resi: 9/13 Vidyanagar Colony, Tirupati; Ph off: 2592; resi: 2843.

VIJAY KUMAR: Prop, Tima Chemicals; Ed: BSc, MBA. Add off: 6B Ajanta Udar, Goregaon Cooperative Housing Society, S V Rd, Goregaon, Bombay 400062; Ph off: 690504.

WAGH, L N: Dep Gen Mgr (AE & AF), The Maharashtra Agro Industries Dev Corpn Ltd. Add off: Anim Feed Div, Opp Central Store, Aarey Milk Colony, Goregaon (East), Bombay 400065; Ph off: 687131, 693881, 696716.

ZACHARIAH, K I: Jt Dir (Poultry), Dept of AH, Kerala; b 8 Sep 33. Ed: BSc, 54, Kerala; BVSc, 58, Osmania. Add off: Vikas Bhawan, PB No 138, Trivandrum 695035; Ph off: 60683; resi: 70168.

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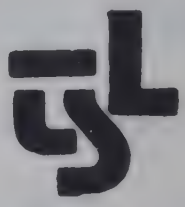
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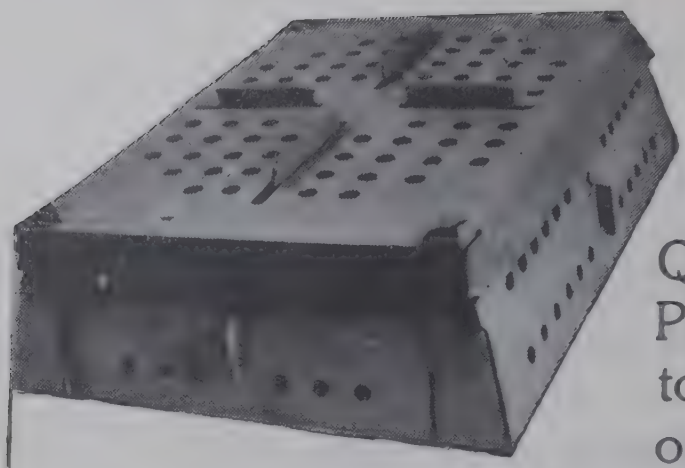
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